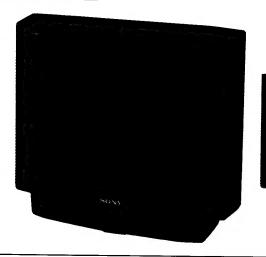
KV-M2140B RM-694

SERVICE MANUAL

French Model Chassis No. SCC-E24C-A



BE-2A CHASSIS

MODELS OF	THI	E SAME	SERIES
KV-M2140B			
KV-M1620B			
KV-M1420B		-	

SPECIFICATIONS

[K	٧	<u>.</u>	V	12	1	4(B	1

Television system

Color system

B/G/H/L PAL/SECAM

Channel coverage

Picture tube

Inputs

Outputs

B/G/H VHF: E2-E12

UHF: E21-E69

CABLE TV: S1-S20

VHF: 02-10, B-Q

UHF: F21-F69

Black Trinitron tube

90° degree deflection

Approx. 54.5 cm (21 inches)

(Approx.51.0cm picture measured diagonally) Supplied accessories

21-pin connector: CENELEC standard

Including RGB input

Audio/Video input jacks: phono jacks

S-Video input

21-pin connector: CENELEC standard

Headphones jack: minijack

Sound output 5 W (Music) Power consumption

Dimensions

Weight

70.5 Wh

Approx. 513x475x487 mm (w/h/d)

Approx. 24.9 kg

[RM-694]

Remote control system infrared control

Power requirements

3V dc

2 batteries IEC designation

R6 (size AA)

Dimensions Approx. $55 \times 18 \times 185$ mm (w/h/d)

Weight

Accessories supplied

Approx. 100g including batteries

IEC designation R6 batters (2)

RM-694 Remote Commander (1) IEC designation R6 batteries (2)

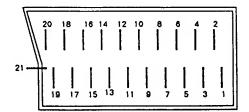
Design and specifications are subject to change without

notice.



TRINITRON® COLOR TV SONY

21-pin Euro Connector Configuration



PIN	SIGNAL	SPECIFICATION
1	Audio output	0.5Vrms/1kilohm or less
2	Audio input	0.5Vrms/10kilohms or more
3	Audio output	0.5Vrms/1kilohm or less
4	Earth (audio)	
5	Earth (B-input)	
6	Audio input	0,5Vrms/10kilohms or more
7	B-input	0.7Vp-p/75ohms
8	Function switching	9.5V to 12V
9	Earth (G-input)	
10		
11	G-input	0.7Vp-p/75ohms
12		
13	Earth (R-input)	
14	Earth (blanking)	
15	R-input	0.7Vp-p/75ohms
16	Fast blanking	1V to 3V/75ohms
17	Earth (video)	
18	Earth (fast blanking)	
19	Video output	1Vp-p/75ohms
20	Video input	IVp-p/75ohms
21	Screening plug	

4 pin connector ()

1	Pin No	Signal	Signal level
-	1	Ground	
į	2	Ground	
	3	Y (S signal) input	1V ± 3dB 75ohm, positive Sync 0.3V: n dB
į	4	C (S signal) input	0.3V ± 3dB 75ohm positive

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK

NON THE SCHEMATIC DIAGRAMS, EXPLODED
VIEWS AND IN THE PARTS LIST ARE CRITICAL TO
SAFE OPERATION. REPLACE THESE COMPONENTS
WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

TABLE OF CONTENTS

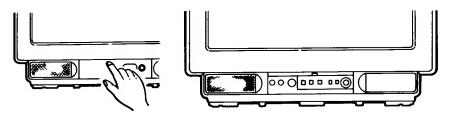
Sect	ion <u>Title</u> <u>Page</u>
1.	GENERAL
1-1.	Index of the Parts4
1-2.	To Preset Channels5
1-3.	Daily Use of the TV5
1-4.	Picture and Sound Adjustments6
2.	DISASSEMBLY
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GENERAL

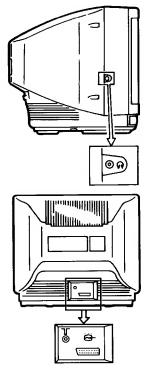
1-1. INDEX OF THE PARTS

In the following you will find a short description of the parts and their function on the set or on the remote commander using the respective symbols. For more details reter to the page number given in the index.

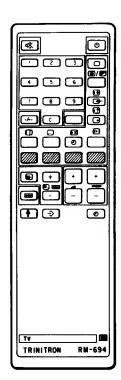
TV Set - Front



TV Set - Rear



Remote Commander



TV set

Symbol	Function
C	Headphones jack (mini-jack)
v	Video input jack
A (}	Audio input jack
₽+/-	Buttons for Sound and picture adjustment
+/-	Programme scanning buttons
⊕	S-video input jack
Ф	Standby indicator
0	Power switch
7	Aerial socket (rear of the set)
ප්	21-Pin connector (rear of the set)

Remote Commander

Symbol	Function
×	Mute button
1-9, 0, -/	Number buttons — in case of two digit numbers first press button —/—— and then two number buttons
*	Button has no function
•	Select button for picture adjustment item
+/-	Buttons for adjustment picture items
† and +/-	Buttons for manual fine tuning of a channel
→•←	Button for resetting the picture adjustment items to standard
С	Button for clearing a programme position (in preset mode)
1	Functions only in combination with other buttons
-\$and ↑	Preset mode on/off buttons
Ф	Buttons for switching the TV set into standby mode
0	Used to return to TV-mode from stadby and video input modes
G	Button for selecting the video input mode
G	On/off button for onscreen display
PROGR +/-	Programme scanning butlons
△+/-	Buttons for adjusting the volume
0	Button for activating the sleep timer

Buttons not referred to in this index have no function.

1-2. TO PRESET CHANNELS

The control buttons to preset channels are located on the Remote Commander. (Up to 60 programme positions are at your disposal.)

- 1 Press the power switch on-the set to switch it
- Press both the + (shift) button and the -> (preset) button simultaneously. You are now in the preset mode.
- 3 Use either button PROGR + (upwards) or PROGR - (downwards) to select the required programme position.
- Press both the + button and the + or button repeatedly until the desired TV station is found.
- Repeat steps 3 and 4 for all other channels.
- Press once more both the + button and the ->> (preset) button in order to return to the TV mode and to store the channels.

Skipping of programme positions

Ġ

Using both the button C and the + button you have the possibility to skip unused programme positions (e.g. without a stored station) when pressing the PROGR +/- buttons.

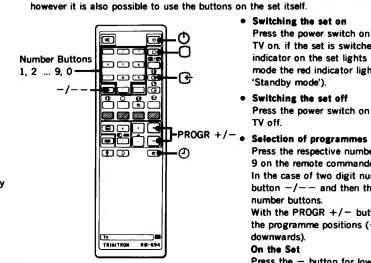
- 1 Press both the + button and the (preset) button to select the preset mode.
- 2 Select the programme position to be skipped by pressing the + or - PROGR button.
- Press the C button.
- Prees both the (preset) button and the + button to return to the TV mode.

Manual Fine Tuning

If the reception of a channel is not satisfactory you have the possibility to deactivate the Automatic Fine Tuning which usually tunes in the best possible picture during presetting. Press both the + button and the + or button to fine ture the channel. By pressing the respective programme number the automatic Fine Tuning will be restored.

1-3. DAILY USE OF THE TV

Your TV set is supposed to be operated with the Remote Commander, for the basic functions however it is also possible to use the buttons on the set itself.



Switching the set on

Press the power switch on the set to switch the TV on, if the set is switched on, the green indicator on the set lights up, if it is in standby mode the red indicator lights up (see also 'Standby mode').

· Switching the set off

Press the power switch on the set to switch the TV off.

Press the respective number button 1,2, ---9 on the remote commander.

In the case of two digit numbers, first press button -/-- and then the two respective number buttons.

With the PROGR +/- buttons you can scan the programme positions (+ upwards, downwards).

On the Set

Press the - button for lower programme positions and the + button for higher ones.

 Standby mode There are two possibilities to put the set into

1. Directly

standby mode.

Press the button O on the remote commander. The red indicator (*) on the set lights up.

Note:

Use the standby button only for short breaks if the set will not be used for a longer time span, use the power switch (1) to switch the set off.

2. By using the sleep timer

Press the (4) button repeatedly until the required time period is displayed on the screen (30, 60, 90 or 0 for cancelling of the operation).

In this way you can select the time period after which the set switches itself automatically into standby mode.

Switching the set on out of standby mode

Press the Dutton or one of the number buttons on the remote commander.

On-screen display

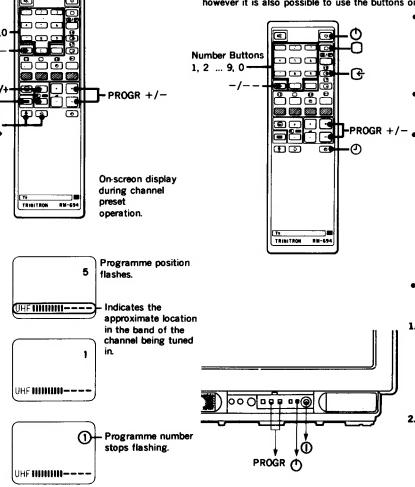
On-screen display

after presetting.

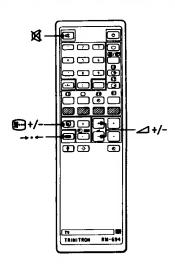
Press the button to display the programme number on the screen and press the button once more to make it disappear.

• Selecting the signal of the connected device

Press the \ button to receive the signal of the device (e.g. a video recorder) connected at the V A connectors or the 21 -pin connector (rcar of the set). Press the button to return to the TV mode.



1-4. PICTURE AND SOUND ADJUSTMENTS



Volume

Press the button \triangle + to increase the volume and the button \triangle - to decrease it.

On the set

Press the ⊕button until ∠ is displayed on the screen and adjust the volume with the - or + button.

Modification of the picture presettings
 Press the button on the commander to select either contrast , colour intensity , or brightness (the respective indication is displayed on the screen). Adjust the settings by

pressing the + or - button.

To return to factory-set levels

Press the reset button → • ← to return to the preset picture leves.

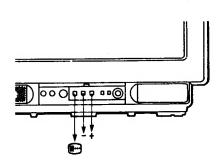
On the set

Press the button in order to select the requested item (contrast), colour Intensity , brightness , and adjust with the + or − button.

· Muting the sound

Press the button to switch off the sound.

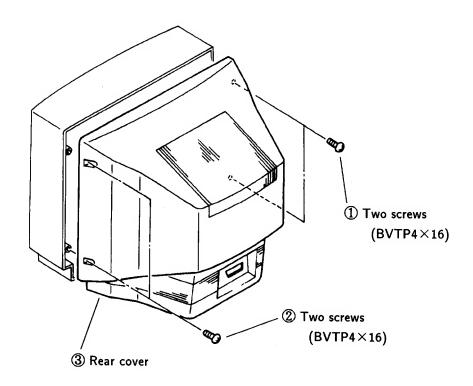
Press the button again to restore the sound.



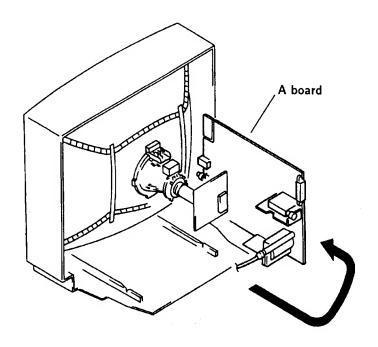
Ó

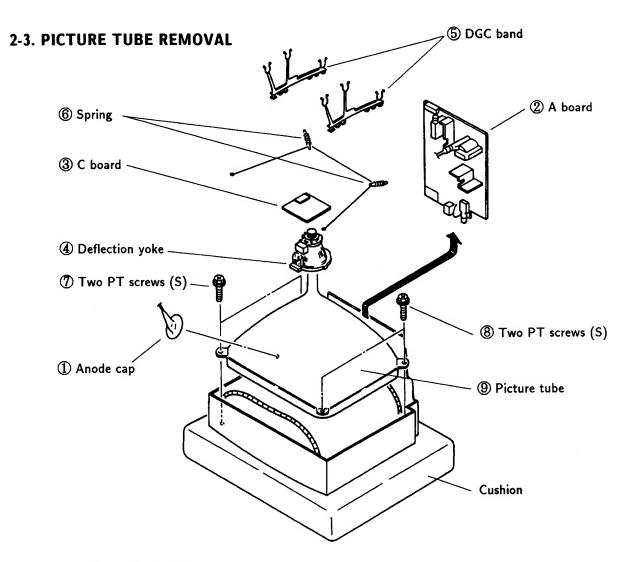
SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

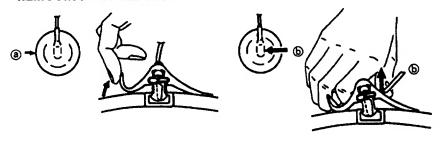


2-2. SERVICE POSITION

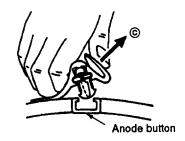




REMOVING PROCEDURES



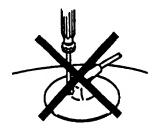
① Turn up one side of the rubber cap in ② Using a thumb pull up the rubber cap the direction indicated by the arrow ③. firmly in the direction indicated by the arrow ⑤.

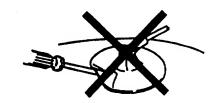


When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

· HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
 - A material fitting called as shatter-hook terminal is built in the rubber.
- 3 Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted. The controls and switch below should be set as follows unless otherwise noted:
 - ◆ CONTRASTcontrol ······ 80%(or Normal by commander)

☼ BRIGHTNESS control 50%

Perform the adjustments in order as follows:

Preparation:

- Set the side of the unit with the PICTUE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser..

3-1. BEAM LANDING

Demagnetize with a degausser

- Input a raster signal with the pattern generator.
 CONTRAST BRIGHTNESS
- 2. Turn the raster signal of the pattern generator to red
- Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides evenly. (Fig.3-1 - 3-3)
- 4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig.3-1)
- 5. Switch over the raster signal to blue and green confirm the condition.
- 6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
- 7. When landing at the corner is not right, adjust by using the disk magnets. (Fig.3-4)

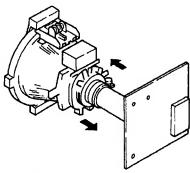


Fig.3-1

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. Screen (G 2) and White Balance

Note: Test Equipment Required.

- 1. Color bar/Pattern Generator
- 2. Degausser
- 3. DC Power Supply
- 4. Digital multimeter
- 5. Oscilloscope

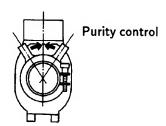


Fig.3-2

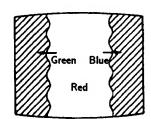
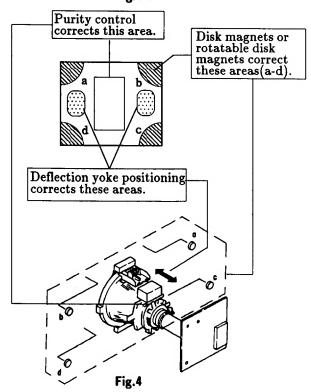


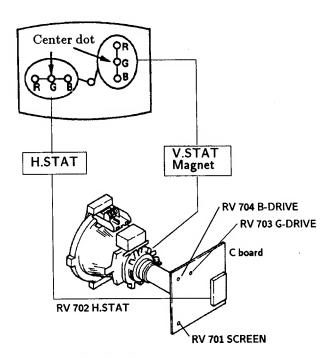
Fig.3-3



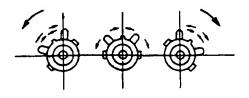
3-2. CONVERGENCE

Preparation:

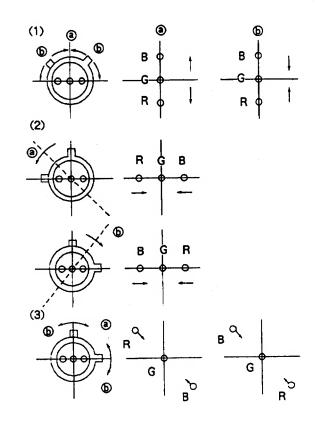
- Before starting, perform FOCUS, H.SIZE, and V.
 SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.
- (1) Horizontal and Vertical Static Convergence



- 1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen. (Horizontal movement)
- 2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
- 3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow (2) and (5), red, green and blue dots move as shown below.

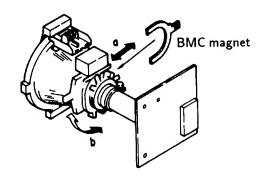


If the red and blue dot do not converge with green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

Rotate BMC magnet (b) to correct insufficient V.static convergence.

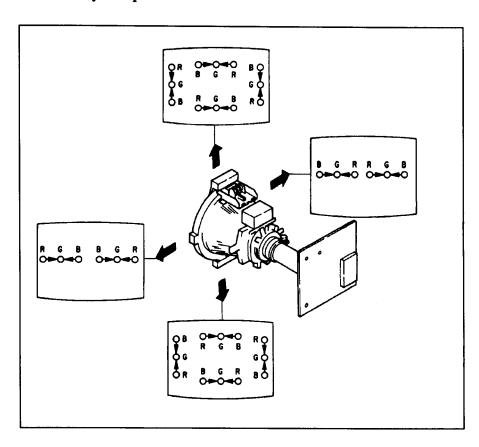
In either case, repeat Beam Landing Adjustment.

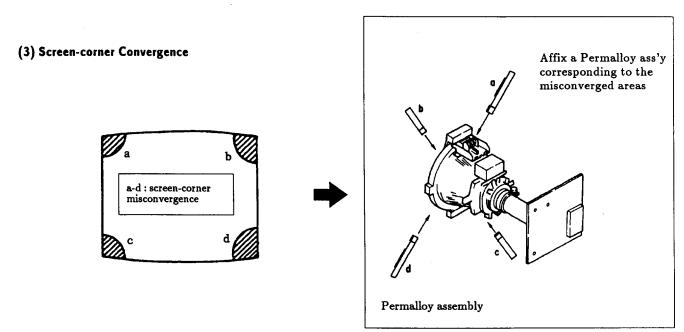


(2) Dynamic Convergence Adjustment Preparation:

- Before starting perform Horizontal and Vertical static convergence Adjustment.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

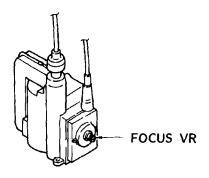
- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.





3-3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.

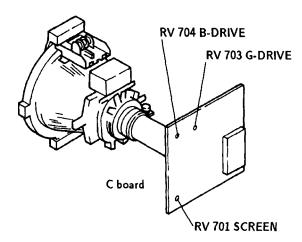


White Balance Adjustment

- 1. Input all-white signal from the pattern generator.
- 2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
- 3. Adjust the following using RV 704 (B DRIVE) and RV 703 (G DRIVE)

In the following adjustments, the CONTRAST, COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

3-4. SCREEN (G 2) and WHITE BALANCE

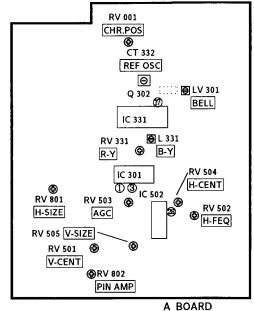


Screen (G 2) Setting

- 1. Input dot signal from the pattern generator.
- 2. Set the picture BRIGHTNESS control to minimum level.
- 3. Apply 170 V DC to the cathodes of R,G and B from an external power source.
- 4. While watching the picture, adjust the G2 control RV701 (SCREEN) immediately before fly-back line disappears.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BORAD ADJUSTMENTS



-Component side-

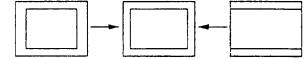
TU AGC Adjustment (RV 503)

- 1. Tune in air signal.
- 2. Adjust AGC VR (RV 503) so that snow-noise and cross-modulation just disappear from the picture.

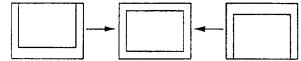
RV 504 H.CENT (HORIZONTAL CENTER)



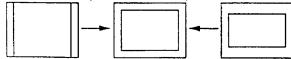
RV 801 H.SIZE (HORIZONTAL SIZE)



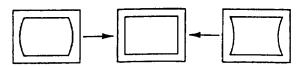
RV 501 V.CENT (VERTICAL CENTER)



RV 505 V.SIZE (VERTICAL SIZE)

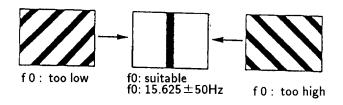


RV 802 PIN AMP (PINCUSHION AMPLIFIER)



H.FREQ Adjustment (RV 502)

- 1. Input a PAL COLOR BAR signal, then connect an electrolytic capacitor (100 $\mu/16$ V) between pin and GND of IC 502.
- 2. Adjust RV 502 (H.FREQ) to stop scrolling of the picture in the horizontal direction.
- 3. After adjustment, remove the electrolytic capacitor.

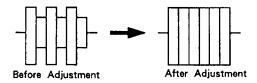


REF OSC 8.8 MHz Adjustment (CT 332)

- 1. Input a PAL COLOR BAR pattern.
- 2. Short circuit between pin of IC 331 and ground.
- 3. Adjust CT 332 to obtain color synchronization.
- 4. Remove the jumper wire from IC 331.

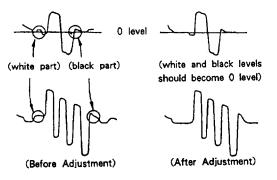
BELL FILTER Adjustment (LV 301)

- 1. Input a SECAM COLOR BAR pattern.
- 2. Connect an oscilloscope to rhe Q 302 emitter.
- 3. Adhust LV 301 so that waveform becomes flat.



SECAM DISCRI Adjustment (RV 331 R-Y L 331 B-Y)

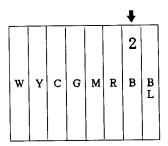
- 1. Input a SECAM COLOR BAR pattern.
- 2. Connect an oscilloscope to pin ① of IC 301.
- 3. Adjust RV 331(R-Y) so that white and black parts of the waveform of pin ① becomes 0 lecel.
- 4. Connect an oscilloscope to pin 3 of IC 301.
- 5. Adjust L 331(B-Y) so that white and black parts of the waveform of pin 3 becomes 0 level.



KV-M2140B RM-694

CHARACTER POSITION Adjustment (RV 001)

- 1. Input PAL COLOR BAR pattern.
- 2. Adjust RV 001 to position the charcter display at the point indicated by the arrow below.



KV-M2140K/M2141K

SERVICE MANUAL



OIRT Model

KV-M2140K

Chassis No. SCC-E50B-A

KV-M2141K

Chassis No. SCC-E50A-A

BE-2A CHASSIS

MODELS OF	THE	SAME	SERIES
-M2140K/M2141F	<		
	-		

SPECIFICATIONS

[KV-M2140K/M2141K]

Television system

Color system

PAL/SECAM

Channel coverage

B/G/H

VHF: E2-E12

UHF: E21-E69

B/G/H/D/K

CABLE TV: S1-S20

D/K

VHF: R1-R12

UHF: R21-R60

Picture tube

Black Trinitron tube

90° degree deflection

Approx. 54.5 cm (21 inches)

(Approx.51.0cm picture measured diagonally)

Inputs

21-pin connector: CENELEC standard

Including RGB input

Audio/Video input jacks: phono jacks

S-Video input

Outputs

21-pin connector: CENELEC standard

Headphones jack: minijack

Sound output

5 W (Music)

Power consumption

70.5Wh (KV-M2140K)

73.5Wh (KV-M2141K)

Dimensions

Approx. 513x475x487 mm (w/h/d)

Weight

Approx. 24.9 kg

[RM-694]

Remote control system infrared control

Power requirements

3V dc

2 batteries IEC designation

R6 (size AA)

Dimensions

Weight

Approx. $55 \times 18 \times 185 \text{mm}$ (w/h/d) Approx. 100g including batteries

Accessories supplied IEC designation R6 batters (2)

Supplied accessories

RM-694 Remote Commander (1)

IEC designation R6 batteries (2)

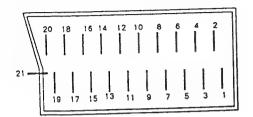
Design and specifications are subject to change without

notice.



TRINITRON® COLOR TV SONY

21-pin Euro Connector Configuration



PIN	SIGNAL	SPECIFICATION
1	Audio output	0.5Vrms/1kilohm or less
2	Audio input	0.5Vrms/10kilohms or more
3	Audio output	0.5Vrms/1kilohm or less
4	Earth (audio)	
5	Earth (B-input)	
8	Audio input	0.5Vrms/10kilohms or more
7	8-input	0,7Vp-p/75ohms
8	Function switching	9.5V to 12V
9	Earth (G-input)	
10		
11	G-input	0.7Vp-p/75ohms
12		
13	Earth (R-input)	
14	Earth (blanking)	
15	R-input	0.7Vp-p/75ohms
16	Fast blanking	IV to 3V/75ohms
17	Earth (video)	
18	Earth (fast blanking)	
19	Video output	1Vp-p/75ohms
20	Video input	IVp-p/75ohms
21	Screening plug	

4 pin connector (52

4	pin conr	nector ([]) .	
Γ	Pin No	Signal	Signal level
\mathbf{I}	1	Ground	
	2	Ground	
	3		1∨±3dB 75ohm, positive Sync 0.3∨?; dB
1	4	C (S signal) input	0.3V ± 3dB 75ohm positive

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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Note) The layout, etc., will be slightly different from the operating instructions packed with SECTION 1 the units.

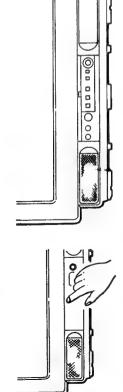
GENERAL

TV set

1-1. INDEX OF THE PARTS

In the following you will find a short description of the parts and their function on the set or on the remote commander using the respective symbols. For more details reter to the page number given in the index.

TV Set - Front

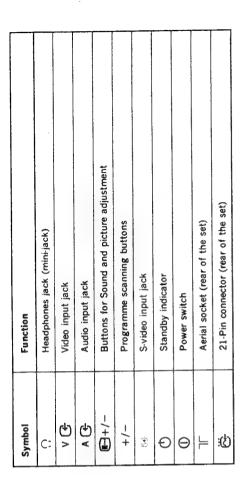






Remote Commander

TV Set - Rear



Symbol	Function
 ×	Mute button
1-9, 0,	Number buttons — in case of two digit numbers first press button $-/$ and then two number buttons
*	Button has no function
4	Select button for picture adjustment item
-/+	Buttons for adjustment picture items
+ 4-but	Buttons for manual fine tuning of a channel
1	Button for resetting the picture adjustment items to standard
၁	Button for clearing a programme position (in preset mode)
+	Functions only in corpbination with other buttons
- ⊕and 1	Preset mode on/off buttons
Ð	Buttons for switching the TV set into standby mode
0	Used to return to TV-mode from stadby and video input modes
ආ	Button for selecting the video input mode
O	On/off button for onscreen display
PROGR +/-	Programme scanning butlons
7+/-	Buttons for adjusting the volume
0	Button for activating the sleep timer

(c) (o)

Note Buttons not referred to in this index have no function.

RM-694

TRINITRON

_d _⊚

0

0 0 000

8

1-2. TO PRESET CHANNELS

The control buttons to preset channels are located on the Remote Commander. (Up to 60 programme positions are at your disposal.) Press the power switch on the set to switch it

1,2,...9,0

-/-

-+/- (I)

(preset) button simultaneously. You are now Press both the * (shift) button and the in the preset mode N

4

- PROGR (downwards) to select the required Use either button PROGR + (upwards) or programme position. ന
- button repeatedly until the desired TV station Press both the + button and the + or is found. 4
- Repeat steps 3 and 4 for all other channels. ß
- Press once more both the T button and the (preset) button in order to return to the TV mode and to store the channels. ဖ

Using both the button C and the + button you have the possibility to skip unused programme positions (e.g. without a stored station) when pressing the PROGR +/- buttons. Skipping of programme positions

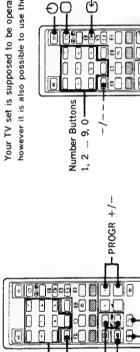
Press both the T button and the 🕁 (preset) button to select the preset mode.

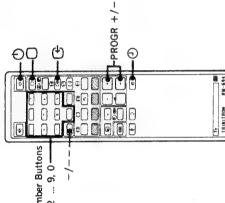
UHE HILLING---

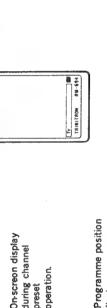
- Select the programme position to be skipped by pressing the + or - PROGR button.
- Press the C button.
- Prees both the ﴿ (preset) button and the * button to return to the TV mode.

Manual Fine Tuning

Automatic Fine Tuning which usually tunes in the respective programme number the automatic Fine button to fine ture the channel. By pressing the If the reception of a channel is not satisfactory Press both the T button and the + or you have the possibility to deactivate the best possible picture during presetting. **Tuning** will be restored.







during channel

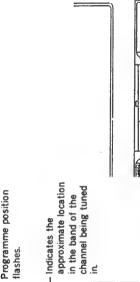
operation.

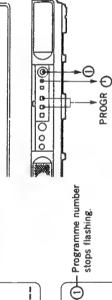
preset

TRINITRON RM-694

flashes.

UHF IIIIIIIIIIIIIIII





stops flashing.

UHF HIMINI ----



Switching the set on out of standby mode

Press the Joutton to display the programme number on the screen and press the button once more to make (only for KV-M2141K) it disappear.

current time.

Press the G-button to receive the signal of the device (e.g. a video recorder) connected at the V & A connectors or the 21 -pin connector (rear of the set).

1-3. DAILY USE OF THE TV

Your TV set is supposed to be operated with the Remote Commander, for the basic functions however it is also possible to use the buttons on the set itself.

· Switching the set on

indicator on the set lights up, if it is in standby Press the power switch on the set to switch the TV on. if the set is switched on. the green mode the red indicator lights up (see also 'Standby mode').

Switching the set off

Press the power switch on the set to switch the

TV off.

Press the respective number button 1,2, 9 on the remote commander. Selection of programmes

In the case of two digit numbers, first press button -/-- and then the two respective number buttons.

With the PROGR +/- buttons you can scan the programme positions (+ upwards, downwards).

On the Set

positions and the + button for higher ones. Press the - button for lower programme

Standby mode

There are two possibilities to put the set into standby mode.

Directly

Press the button O on the remote commander. The red indicator O on the set lights up. Note:

Use the standby button only for short breaks.if the set will not be used for a longer time span, use the power switch (1) to switch the set off.

By using the sleep timer

in this way you can select the time perlod after which the set switches itself automatically into required time period is displayed on the screen Press the @ button repeatedly until the (30, 60, 90 or 0 for cancelling of the operation).

standby mode.

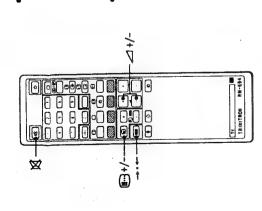
Press the 🔘 button or one of the number buttons on the remote commander.

On-screen display

In TV-mode. if teletext is broadcast on the selected channel, press the button @to display the Time feature (KV-M2141K only)

Selecting the signal of the connected device

1-4. PICTURE AND SOUND ADJUSTMENTS



Press the button 4 to increase the volume

and the button
∠ - to decrease it.

On the set

the screen and adjust the volume with the -Press the Dutton until A is displayed on or + button.

Modification of the picture presettings

displayed on the screen). Adjust the settings by select either contrast (), colour intensity (3), or Press the Tutton on the commander to brightness (the respective indication is pressing the + or - button.

To return to factory-set leveis

Press the reset button →· ← to return to the preset picture leves.

On the set

requested item (contrast(), colour Intensity (3), brightness ☆, and adjust with the + or -Press the button [] in order to select the

Muting the sound

Press the X button to switch off the sound. Press the button again to restore the sound.

To enlarge the teletaxt display. Press (B). Press One to enlarge the upper half of the display: press again to enlarge the lower half of the display; press again to return fat the normal display. To view the teletext service, use the Remote Commander. RM-694 has teletext buttons indicated in green teletext operation are indicated in green.

1-5. VIEWING TELETEXT (KV-M2141K only)

To reveal concessed information such as the answers to a

Operation

- 1 Select the TV channel for the desired teletext
- teletaxt service. Once E/E has been pressed, the TV channel 8
- page to be displayed.

 I Request the new page.

 I Pess (S) to watch the IV program. The requested page

 I when a popears at the top left of the accreen.

 When the requested page has been found, the page
 number is displayed on the top left hand corner of the cannot be changed. Key in the three digits for the desired page using the number buttons, if an error is made, complete the three digit sequence by keying in any digit. Then re-enter the correct page number. The requested teletext page is displayed.

To watch the TV program while waiting for a requested

To adjust the contrast of the teletext display.

Press () + or - button.

Press again to conceal the answers.

Press (2) (REVEAL)

(TV picture) P101

> The teletaxt service can be displayed directly from the standby mode, by pressing (1)(2) To receive the teletext service of a different TV

To return to the TV mode, press TV on the Remote

Commander.

To view this page, press ()

Press TV to return to the TV mode. Select the desired TV channel. Press (B./E).

To have a requested page displayed at a pre-determined

"T****" will appear at the bottom of the screen. 1 Request a time coded page (e. g. alarm page). 2 Press [© (TP ON).

To display the Index page. Press [E] (INDEX). If the necessary signal is not being broadcast, page 100 is displayed.

These buttons are indicated in white on the Commander. To superimpose the teletext display on the TV picture. Press (2) To Nucle from TV mode.

Press (2) To again to return to the TEXT display.

To access the next or preceding page Press B (PAGE+) or (B (PAGE-).



Enter your request time with the number buttons, using four digits. For example, 07:30. 17



displayed.

Press (S) (TEXT CL). This button can be operated from both the TEXT and MIX displays. To prevent a teletext page (subpage) from baing updated /changed. Press © HOLD. The HOLD symbol "图" appears at the top

eft of the screen,

8

To suppress the teletext display so that the TV picture is

To watch the TV program until the requested time, press (St. At the requested time, the page number will be displayed at the top of the screen.

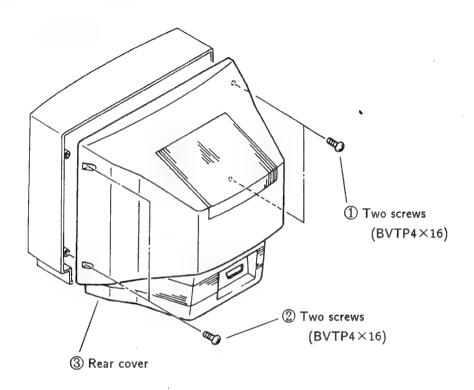
To view this page, press (B/E).

To cancel the request, first ensure that the teletext page is displayed, then press (St. (TP OFF).

To resume normal teletext reception, press E/E).

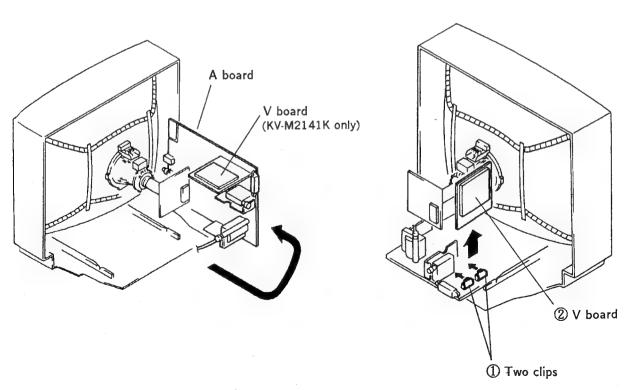
SECTION 2 DISASSEMBLY

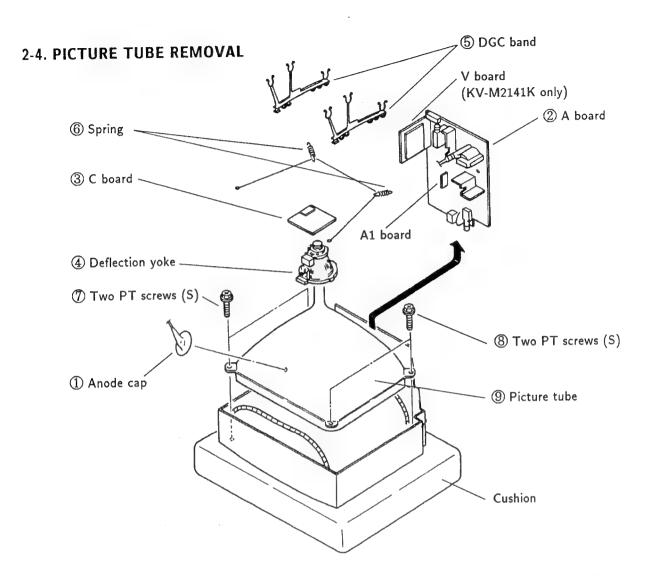
2-1. REAR COVER REMOVAL



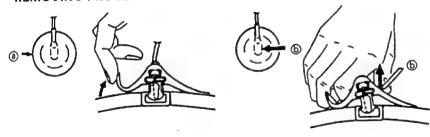
2-2. SERVICE POSITION

2-3. V BOARD REMOVAL (KV-M2141K only)

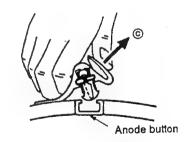




- REMOVING PROCEDURES



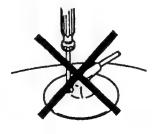
① Turn up one side of the rubber cap in ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.

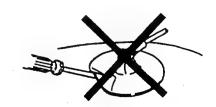


When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- ② Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted. The controls and switch below should be set as follows unless otherwise noted:
 - CONTRASTcontrol ······ 80%(or Normal by commander)

☆ BRIGHTNESS control 50%

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. Screen (G 2) and White Balance

Note: Test Equipment Required.

- 1. Color bar/Pattern Generator
- 2. Degausser
- 3. DC Power Supply
- 4. Digital multimeter
- 5. Oscilloscope

Preparation:

- Set the side of the unit with the PICTUE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser..

3-1. BEAM LANDING

Demagnetize with a degausser

1. Input a raster signal with the pattern generator.

CONTRAST BRIGHTNESS } normal

- 2. Turn the raster signal of the pattern generator to red.
- 3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides evenly. (Fig. 3-1 - 3-3)
- 4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig.3-1)
- 5. Switch over the raster signal to blue and green confirm the condition.
- When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
- 7. When landing at the corner is not right, adjust by using the disk magnets. (Fig.3-4)

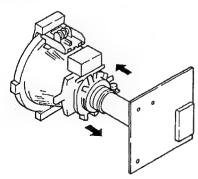


Fig.3-1

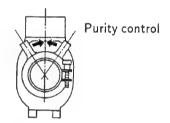


Fig.3-2

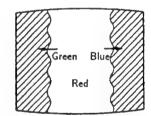
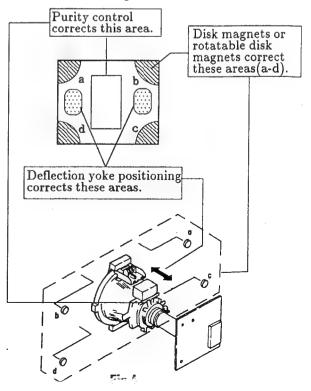


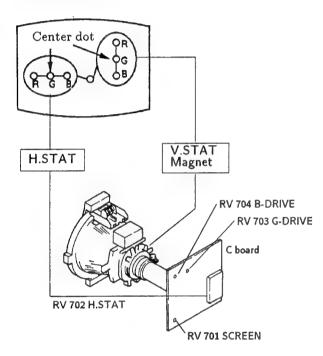
Fig.3-3



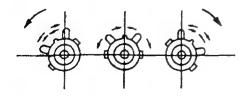
3-2. CONVERGENCE

Preparation:

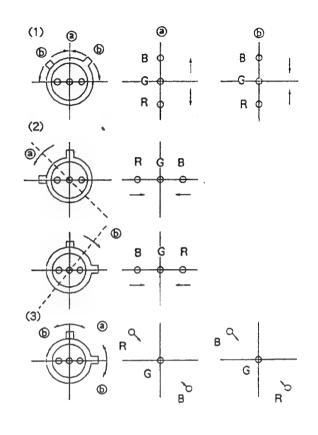
- Before starting, perform FOCUS, H.SIZE, and V.
 SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.
- (1) Horizontal and Vertical Static Convergence



- Adjust H.STAT VR to converge red, green and blue dots the in center of the screen. (Horizontal movement)
- Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
- 3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow (and (b), red, green and blue dots move as shown below.

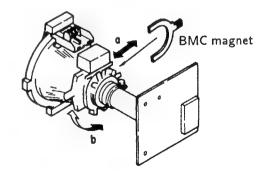


If the red and blue dot do not converge with green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

Rotate BMC magnet (b) to correct insufficient V.static convergence.

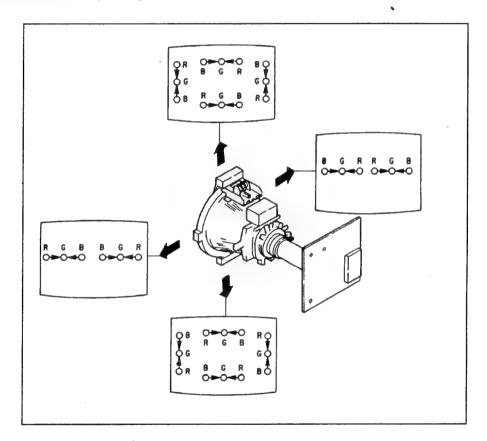
In either case, repeat Beam Landing Adjustment.

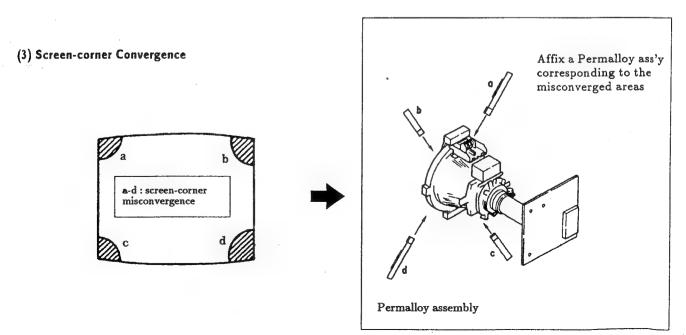


(2) Dynamic Convergence Adjustment Preparation:

- Before starting perform Horizontal and Vertical static convergence Adjustment.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

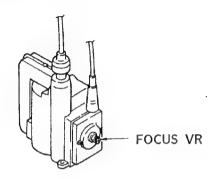
- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.





3-3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.

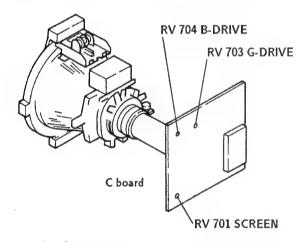


White Balance Adjustment

- 1. Input all-white signal from the pattern generator.
- 2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
- 3. Adjust the following using RV 704 (B DRIVE) and RV 703 (G DRIVE)

In the following adjustments, the CONTRAST, COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

3-4. SCREEN (G 2) and WHITE BALANCE

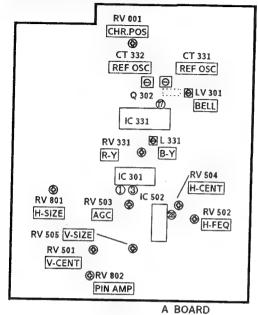


Screen (G 2) Setting

- 1. Input dot signal from the pattern generator.
- 2. Set the picture BRIGHTNESS control to minimum level.
- 3. Apply 170 V DC to the cathodes of R,G and B from an external power source.
- While watching the picture, adjust the G2 control RV701 (SCREEN) immediately before fly-back line disappears.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BORAD ADJUSTMENTS

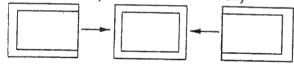


-Component side-

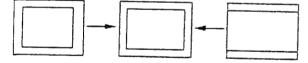
TU AGC Adjustment (RV 503)

- 1. Tune in air signal.
- 2. Adjust AGC VR (RV 503) so that snow-noise and cross-modulation just disappear from the picture.

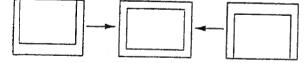
RV 504 H.CENT (HORIZONTAL CENTER)



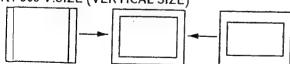
RV 801 H.SIZE (HORIZONTAL SIZE)



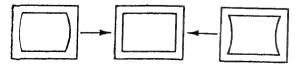
RV 501 V.CENT (VERTICAL CENTER)



RV 505 V.SIZE (VERTICAL SIZE)

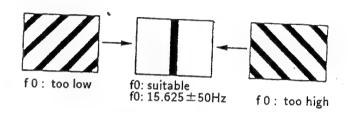


RV 802 PIN AMP (PINCUSHION AMPLIFIER)



H.FREQ Adjustment (RV 502)

- 1. Input a PAL COLOR BAR signal, then connect an electrolytic capacitor (100 $\mu/16$ V) between pin and GND of IC 502.
- 2. Adjust RV 502 (H.FREQ) to stop scrolling of the picture in the horizontal direction.
- 3. After adjustment, remove the electrolytic capacitor.



REF OSC 7.16 MHz Adjustment (CT 331)

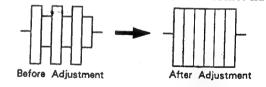
- 1. Input an NTSC COLOR BAR pattern.
- 2. Short circuit between pin @ of IC 331 and ground.
- 3. Adjust CT 331 to obtain color synchronization.
- 4. Remove the jumper wire from IC 331.

REF OSC 8.8 MHz Adjustment (CT 332)

- 1. Input a PAL COLOR BAR pattern.
- 2. Short circuit between pin of IC 331 and ground.
- 3. Adjust CT 332 to obtain color synchronization.
- 4. Remove the jumper wire from IC 331.

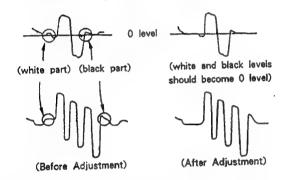
BELL FILTER Adjustment (LV 301)

- 1. Input a SECAM COLOR BAR pattern.
- 2. Connect an oscilloscope to rhe Q 302 emitter.
- 3. Adhust LV 301 so that waveform becomes flat.



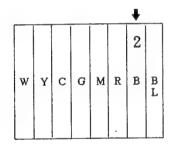
SECAM DISCRI Adjustment (RV 331 R-Y L 331 B-Y)

- 1. Input a SECAM COLOR BAR pattern.
- 2. Connect an oscilloscope to pin ① of IC 301.
- 3. Adjust RV 331(R-Y) so that white and black parts of the waveform of pin ① becomes 0 lecel.
- 4. Connect an oscilloscope to pin 3 of IC 301.
- 5. Adjust L 331(B-Y) so that white and black parts of the waveform of pin 3 becomes 0 level.



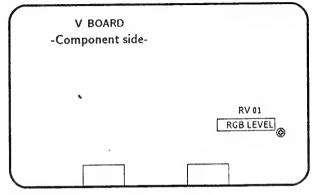
CHARACTER POSITION Adjustment (RV 001)

- 1. Input PAL COLOR BAR pattern.
- 2. Adjust RV 001 to position the charcter display at the point indicated by the arrow below.



4-2. V BOARD ADJUSTMENT

(KV-M2141K only)

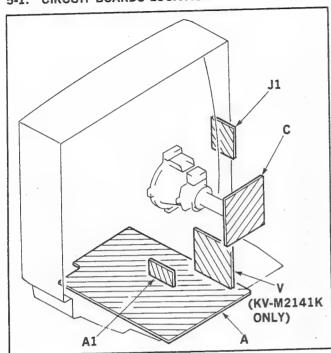


RGB LEVEL Adjustment (RV 01)

- 1. Set PICTURE to maximum.
- 2. Adjust RV01 till the RGB output becomes maximum.

A

5-1. CIRCUIT BOARDS LOCATION



Reference information

SECTION 5

DIAGRAMS

COIL	RESISTOR COIL CAPACITOR		RN RC FPRD FUSE RS RB * LF-8L TA PS PP	METAL FILM SOLID NONFLAMMABLE CARBON NONFLAMMABLE FUSIBLE NONFLAMMABLE WIREWOUNG NONFLAMMABLE CEMENT ADJUSTMENT RESISTOR MICRO INDUCTOR TANTALUM STYROL POLYPROPYLENE MYLAR
		:		. •
		: :	MPP ALB ALT ALR	METALIZED POLYPROPYLENE BIPOLAR HIGH TEMPERATUNE HIGH RIPPLE

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

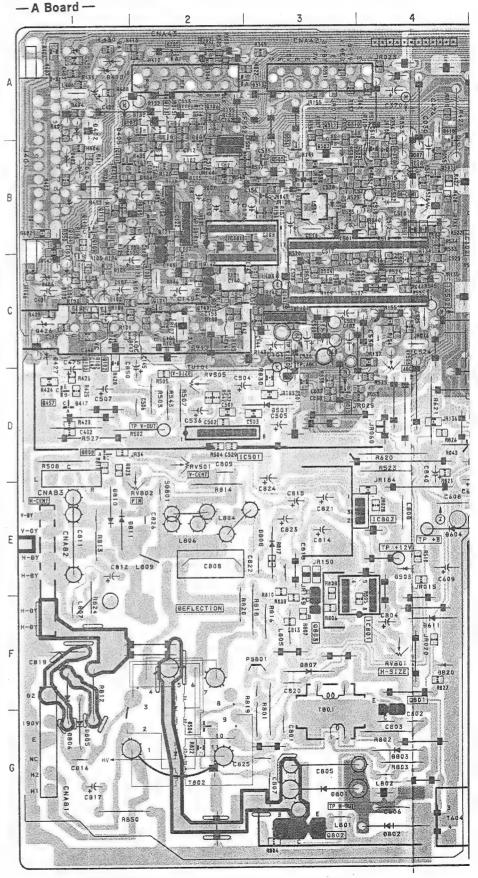
- All capacitors are in μF unless otherwise noted, pF : $\mu \mu F$ 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power is as follows.

Pitch Rating electrical power: 1/4W

- Chip resistor is in 1/10W.
- All resistors are in ohms . k Ω : 1000 Ω , M Ω : 1000k Ω .
- m-: nonflammable resistor.
- fusible resistor.
- [: panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltage are in V.
- \bullet Readings are taken with a 10M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- = : B+ bus.
- 🖙 : Signal path. (RF)

5-2. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

I		0307	B-6	Đ501	Ð-3	CO	IL
		Q310	A-3	9503	E-4 G-2	LV301	E-7
10001	Ð-9	0311	A-3	9504 9511	B-3	L331	C-4
10002	Ð-9	Q401	B-2	Đ511 Đ519	C-8	2331	C 8
10003	Ð-10	Q457 Q501	Ð-1 B-4	9601	F-7		
10004	E-9	Q501	B-3	£602	F-6		
10005	B-8	Q502 Q503	B-3	£603	F-5		
IC101 IC102	B-2 B-5	Q503 Q504	C-3	9604	E-4		
10201	F-8	Q505	B-3	£605	E-6	1	
10301	8-5	0601	G-5	€606	Ð-5		
10302	3-7	Q801	G-4	₽607	G-5	1	
10331	C-7	Q802	H-3	₽608	H-5	1	
10501	Ð-2	Q803	F-3	9609	G-5	-	
10502	C-4	Q1301	B-9	Đ610	G-5		
10601	G-5	01302	B-10	9611	F-4		
10801	F-3	01303	B-10	108G	G-3		
10802	E-4	01304	A-10	Đ802	H-4		
		01305	A-10	9803	G-4		
		01306	B-10	€805	G-1	1	
DAME	ISTOR			£806	F-1		
CVIAN				£807	F-3	1	
0001	Ð-8	oig	DE	£808	E-3		
0003	C-3			Đ809	9-1		
0004	Ð-10	Đ002	E-10	€820	F-4	1	
0005	B-8	£004	C-9	Ð1301	B-10		
6009	C~8	900G	B-3	Ð1302	B-10		
2007	8-4	Đ007	B-8	Ð1303	B-10		
0015	9-3	800G	9-10	01304 01305	A-10 A-10		
6100	9-10	Đ009	B-8	Đ1305	B-10	ļ	
0017	E-9	£020	B-8 C-2	£1305	B-10		
Q019 Q020	Ð-10 Ð-8	Ð102	C-1	81307	B-10	1	
2101	C-2	9103	C-1				
Q102	C-1	0105	B-2	1			
0102	C-1	Đ110	Ç-5	VADI	ABLE	1	
Q104	C-1	£301	Ç-6				
0106	A-2	£302	A-2	I RESI	STOR		
G107	A-2	9303	B-6	RY001	Ð-9		
0108	C-2	Đ305	A-2	RV331	6-3		
0109	B-1	0306	B-6	RV501	Ð-2		
Q110	B-1	9313	A-3	RV502	B-4		
Q11,1	B-1	Đ321	C-5	RV503	C-4		
0112	A-7	£324	A-7	RV504	B-4		
Q113	B-5	Đ333	Ð-7	RV505	Ð-2	1	
0114	B-5	Ð402	A-1	RV801	F-4		
0115	A-6	Đ403	B-1	RV802	€-2]	
Q123	A-2	Đ404	B-1			1	
0140	C-2	Đ40S	A-2	1			
Q141	C-3	9406	C-1			1	
0302	C-7	Ð410	A-1	TRI	MMER	1	
8303	C-7	Ð411	A-1			-	
0304	B-6	Ð417	Ð-1	CT331	C-7		
0305	B-6	Ð418 Ð426	A-4 C-1	CT332	C-7		
0306	B-6						



KV-M2140K/M2141K RM-694

SYSTEM CONTROL, A/V OUT, H/V OUT, MEMORY, CHROMA

Α

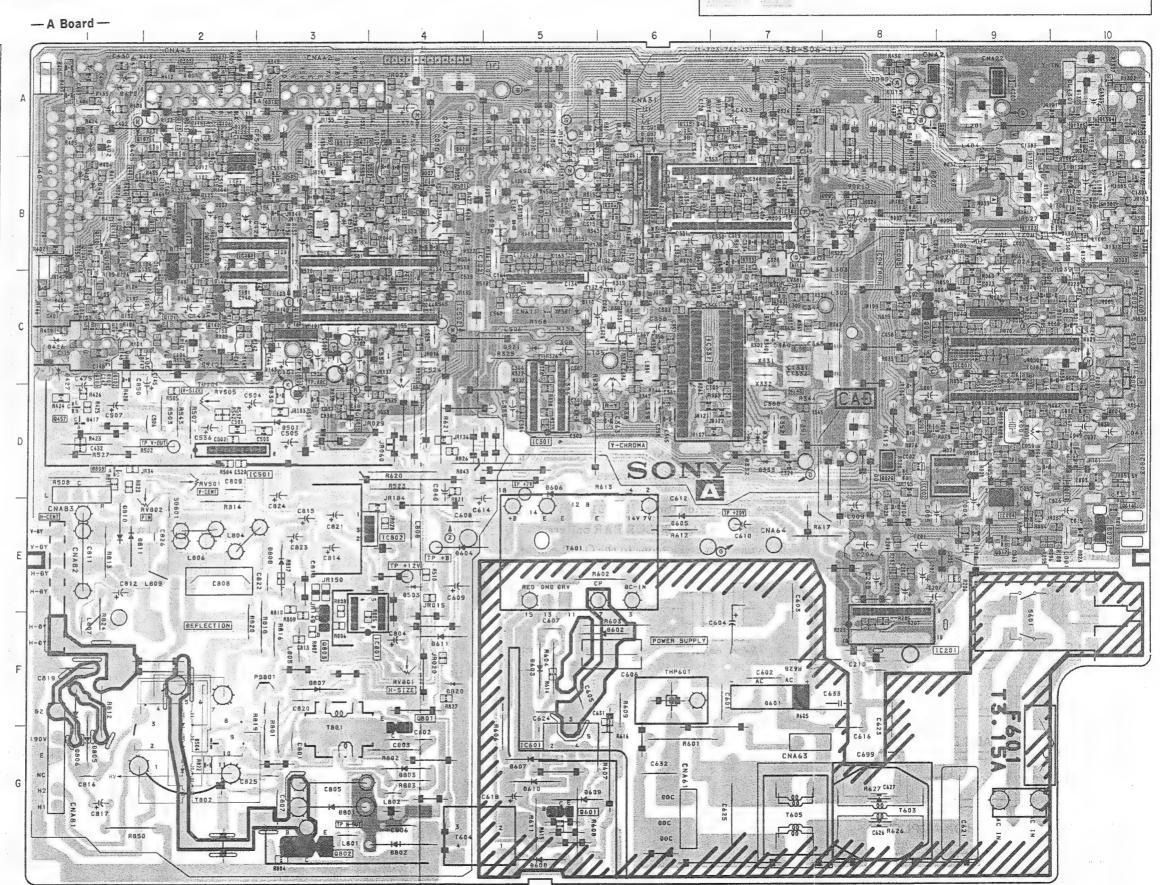


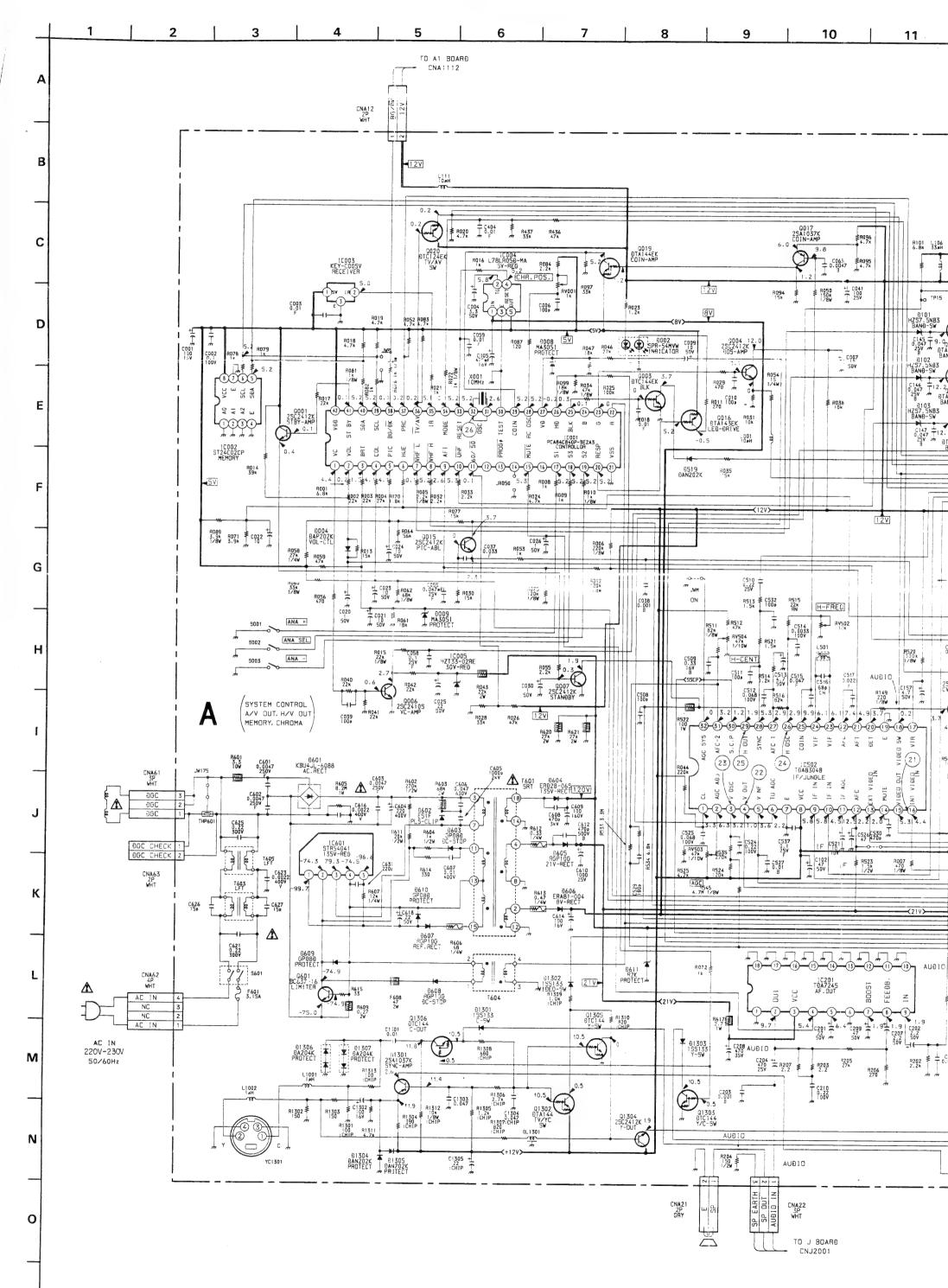
NOTE:

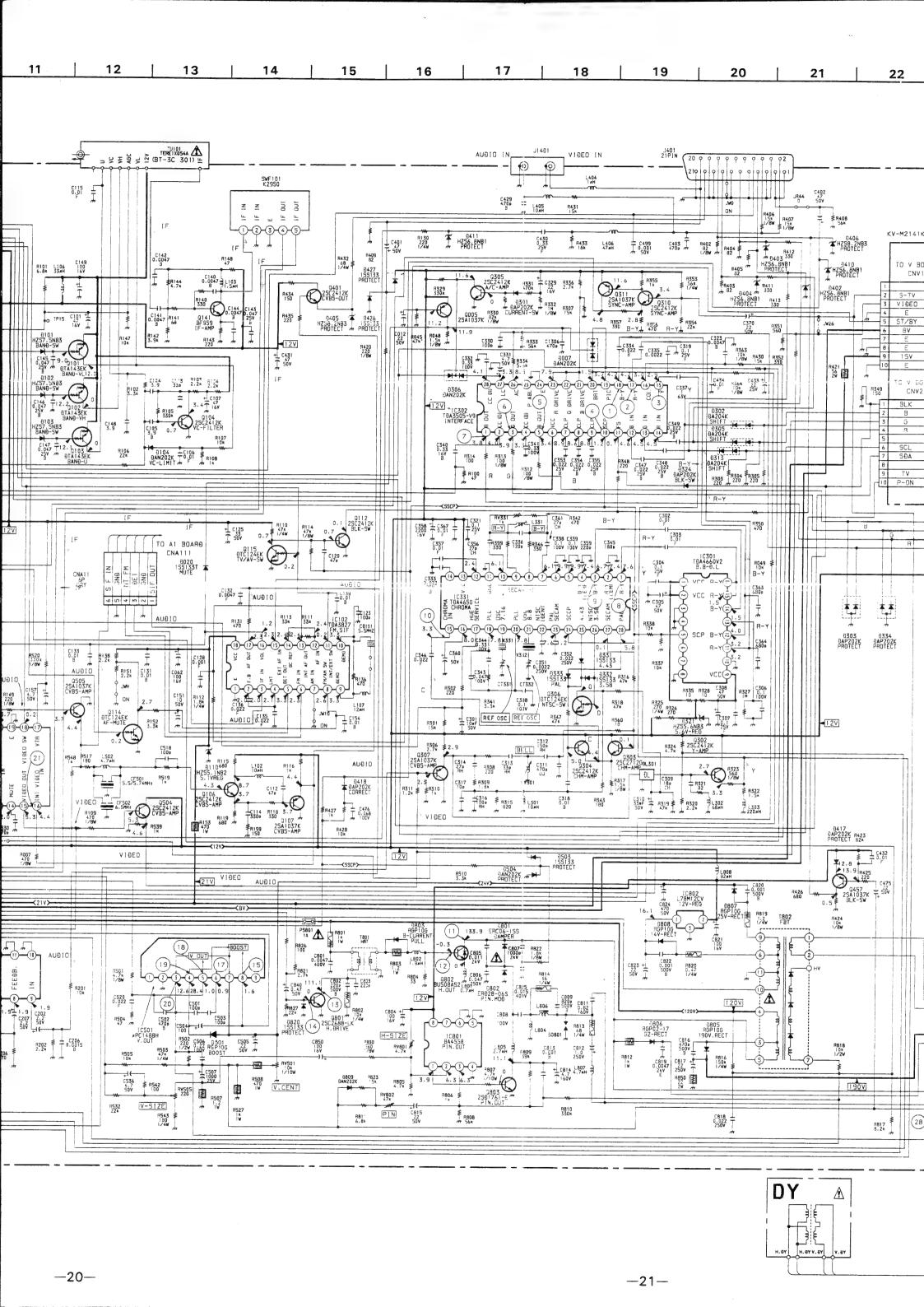
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

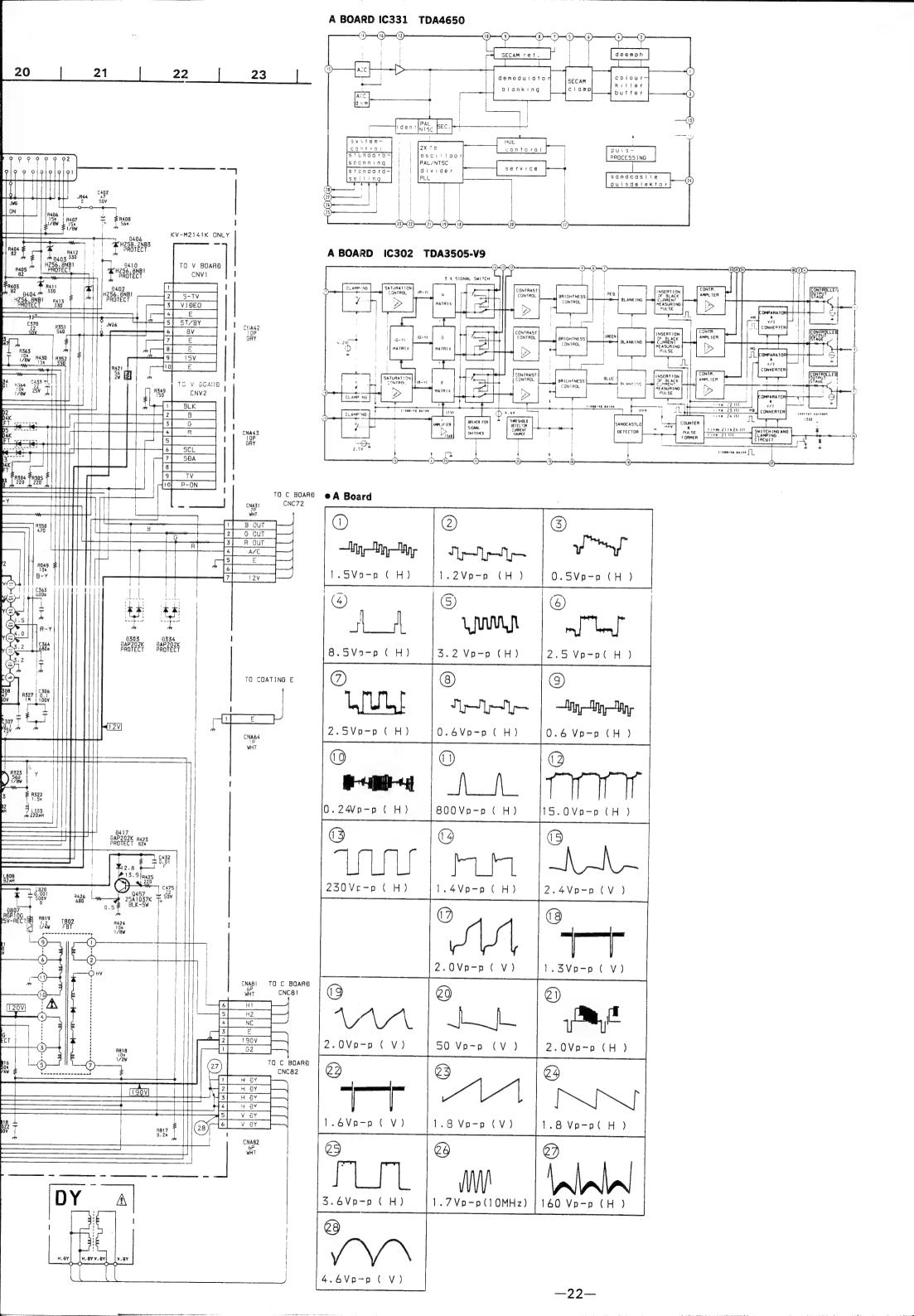
5-2. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

IC	Q307 B-6 Q310 A-3	9501 9-3 9503 E-4	COIL
1C001	0311 A-3 0401 B-2 0457 0-1 0501 B-4 0502 B-3 0504 C-3 0505 B-3 0504 C-3 0505 B-3 0601 G-5 0801 G-4 0802 H-3 0803 F-3 01301 B-9 01302 B-10 01303 A-10	9504 G-2 8511 B-3 9519 C-8 9601 F-7 9602 F-6 9603 F-5 9604 E-4 9605 E-6 9606 B-5 9606 H-5 9609 G-5 9611 F-4 9801 G-5 9801 G-5	LV301 C-7 L331 C-6
TRANSISTOR	01306 B-10	0805 G-1 0806 F-1 0807 F-3	
001	● I O ● E	DB08 E-3 DB09 D-1 DB20 F-4 DB20 F-4 DB20 F-4 DB20 B-10 DB20 B-2 RV501 D-2 RV502 B-4 RV505 D-2 RV504 B-4 RV505 D-2 RV801 F-4 RV805 E-2 RV801 F-4 RV802 E-2 DB20 B-4 RV802 E-2 DB20 B-4 RV802 E-2 DB20 DB20 B-4 RV805 B-4 RV805 E-2 DB20 B-4 RV805 E-2 RV805 RV805 RV805 RV805 RV805 RV805 E-2 RV805 RV8	
Q141 C-3 Q302 C-7 Q303 C-7 Q304 B-6 Q305 B-6	9410 A-1 9411 A-1 9417 9-1 9418 A-4	TRIMMER CT331 C-7 CT332 C-7	

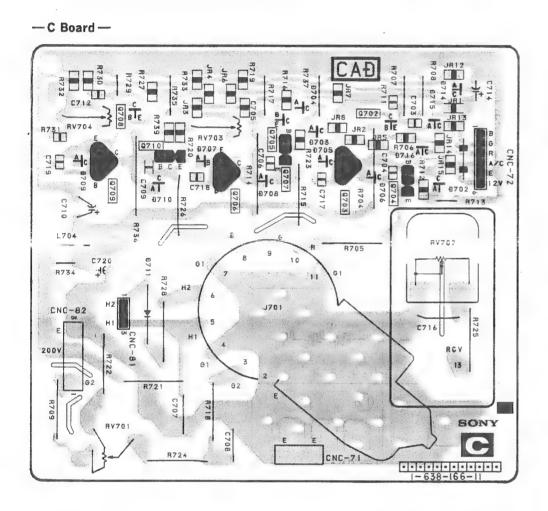


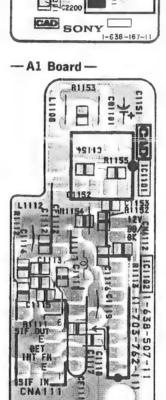








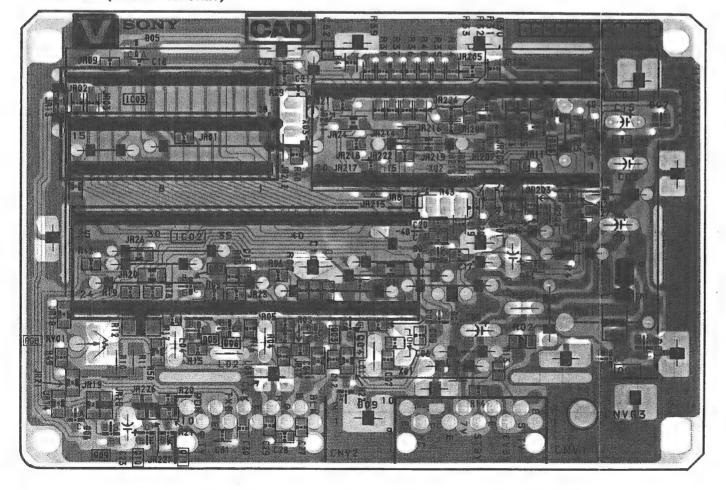


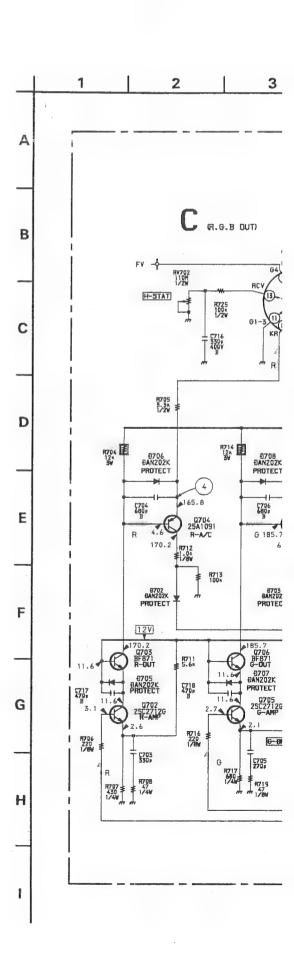


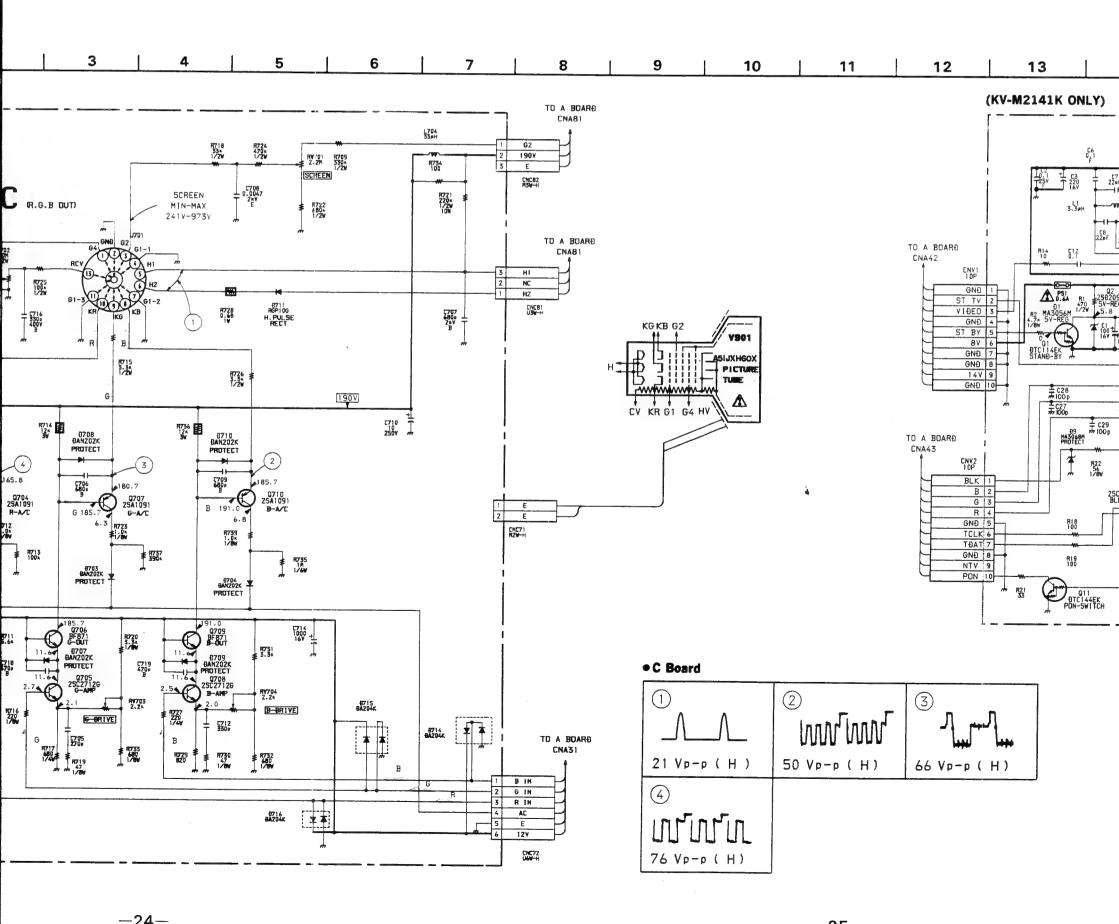
- J1 Board -

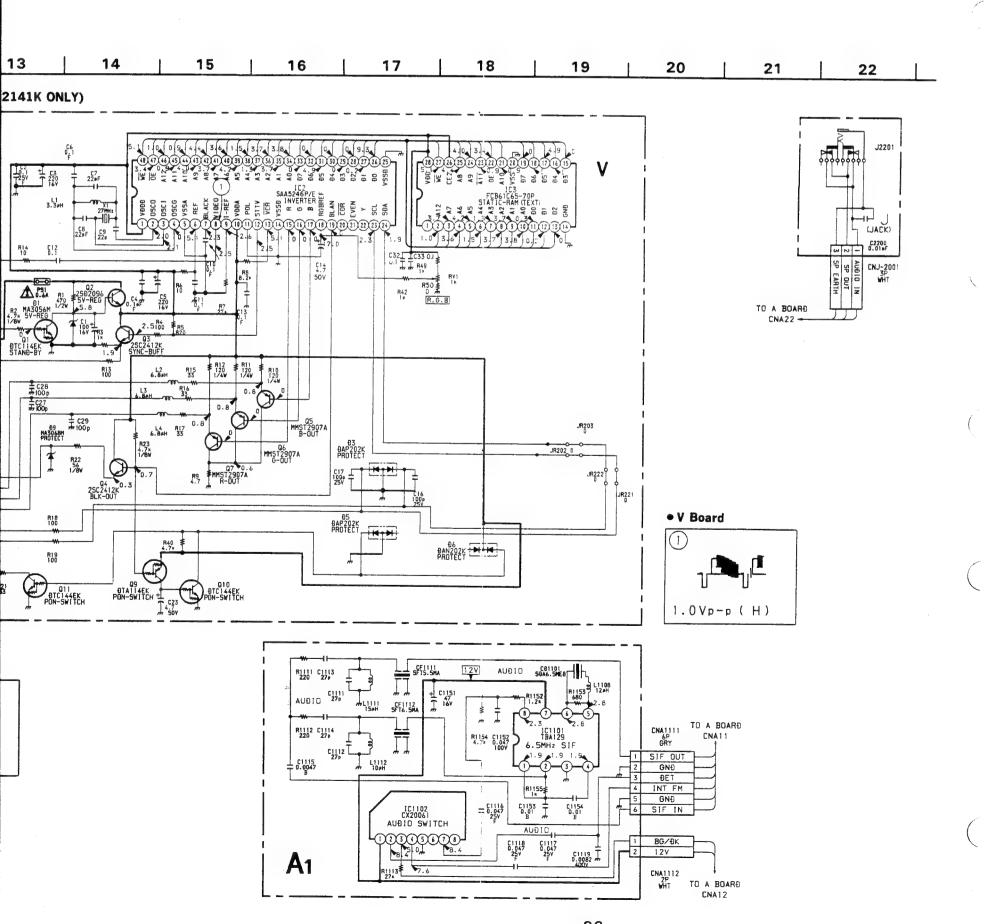
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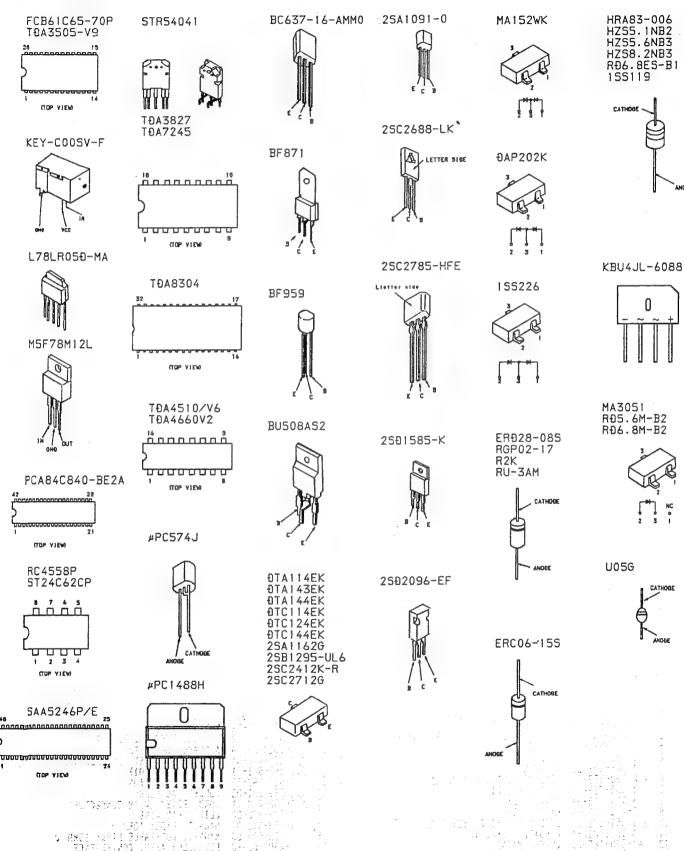








5-3. SEMICONDUCTORS



#131.3745 ,677% Y

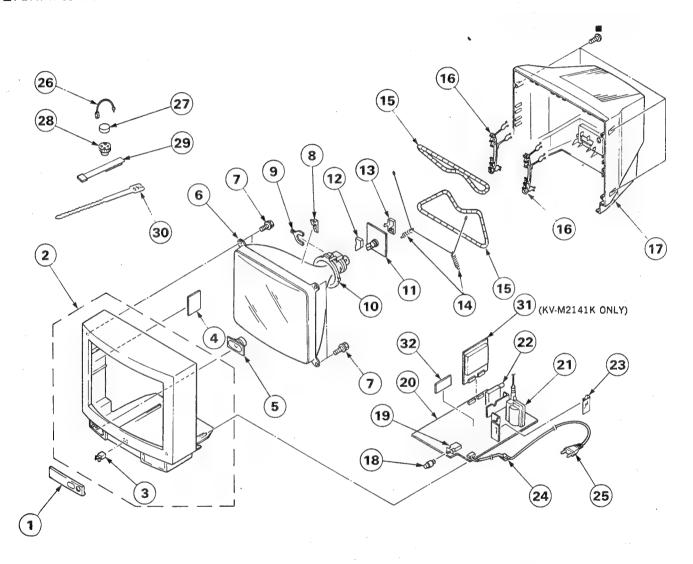
SECTION 6 EXPLODED VIEW

NOTE:

- · Items with no part number and no des-
- tems with no part number and no description are not stocked because they are seldom required for routine service.
 The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark $\hat{\Lambda}$ are critiine components identified by shading and mark \bigwedge are critical for safety. Replace only with part number specified.

■: BVTP4×16 7-685-663-79



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
7 4-382-733-01 8 3-704-495-01 9 1-452-277-00 10 A 1-451-295-11 11 A-1638-016-A 12 *4-379-167-01 13 *4-379-160-01 14 4-200-433-01	CATCHER, PUSH JI BOARD SPEAKER PICTURE TUBE (A51JXH60X) SCREW (S), PT SPACER, DY MACNET, BMC DEFLECTION YOKE (Y21PFA2) C BOARD, COMPLETE COVER (MAIN), CV COVER (REAR LID), CV		18 19 A 20 21 A 22 A 23 24 A 25 A 25 A 27 28 29 30 31	1-571-433-12 A-1632-056-A 1-439-416-51 1-465-541-11 9-910-999-33 4-389-201-02 1-590-460-11 4-308-870-00 1-452-032-00 1-452-032-00 1-452-032-00 1-452-032-00 1-452-032-00	BUTTON, POWER SWITCH, PUSH (AC POWER) A BOARD, COMPLETE TRANSFORMER(ASSY, FLYBACK**() ITUNER (BT 3C 801) PLATE, INSULATION HOLDER, AC CORD CORD, POWER (WITH CONNECTOR CLIP, LEAD WIRE MAGNET, DISK; 10MM MAGNET, ROTATABLE DISK; 15M PERMALLOY ASSY, CONVERGENCE BAND, BINDING V BOARD, COMPLETE (KV-M2141	UX=1650)

SECTION 7 **ELECTRICAL PARTS LIST**

NOTE:

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

 All variable and adjustable resistors have characteristic curve B, unless

When indicating parts by reference number, please include the board name.

CAPACITORS • MF : μF, PF : μμF

507

501 50V 50V

50V

25V

400V

100V

507

501

10%

10%

161

COILS

• MMH : inH, UH : μH

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

· All resistors are in ohms • F : nonflammable REF. NO. PART NO.

otherwise noted. RESISTORS

DESCRIPTION

A-1630-060-A A1 BOARD, COMPLETE

1-573-787-11 SOCKET, CONNECTOR 6P

<CAPACITOR>

CERAMIC CHIP 27PF CERAMIC CHIP 27PF CERAMIC CHIP 27PF CERAMIC CHIP 27PF C1111 1-163-103-00 CIII2 1-163-103-00 CIII3 1-163-103-00 CIII14 1-163-103-00 1-163-103-00 CERAMIC CHIP 0.0047MF 1-163-017-00

CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF MYLAR 0.0082MF C1116 1-164-005-11 C1117 1-164-005-11 C1118 1-164-005-11 C1119 1-106-365-00 MYLAR C1151 1-124-477-11 ELECT 47MF 1-106-383-00 MYLAR 0.047MF C1153 1-164-232-11 CERAMIC CHIP 0.01MF C1154 1-164-232-11 CERAMIC CHIP 0.01MF

<FILTER>

CD1101 1-404-710-11 DISCRIMINATOR, CERAMIC CF1111 1-527-840-00 FILTER, CERAMIC CF1112 1-567-570-11 FILTER, CERAMIC

<CONNECTOR>

CNA111*1-568-877-51 PIN, CONNECTOR 2P

<10>

IC1101 8-759-003-90 IC TBA129 IC1102 8-752-006-12 IC CX20061

<C01L>

L1108 1-408-410-00 INDUCTOR L1111 1-408-411-00 INDUCTOR L1112 1-408-409-00 INDUCTOR 12IIH 15IIK 10UH

<RESISTOR>

R1111 1-216-033-00 METAL GLAZE R1112 1-216-033-00 METAL GLAZE R1113 1-216-083-00 METAL GLAZE R1152 1-216-057-00 METAL GLAZE R1153 1-216-045-00 METAL GLAZE 1/10W 5% 5% 5% 5% 5% 220 27K 2.2K 1/10W 1/10W 1/10W 1/10W

R1154 1-216-065-00 METAL GLAZE 4.7K R1155 1-216-049-00 METAL GLAZE 1K 1/10W 1/10W

DESCRIPTION REMARK ! REF. NO. PART NO. A-1632-056-A A BOARD, COMPLETE

> SPACER, IC HOLDER, LED 4-200-399-01 4-200-407-01 *4-341-751-01 *4-341-752-01 EYELET

100MF

0.1MF

470MF

10MF

10MF

10MF

TOME

10MF

10MF

22MF

IMF

100MF

*4-368-683-01 SPRING *4-389-343-01 SPRING

<CAPACITOR>

ELECT

ELECT

FLECT

ELECT

ELECT

ELECT

FIRCT

FIRCT

ELECT

ELECT

ELECT

ELECT

CERAMIC CHIP 100PF

CERAMIC CHIP 100PF

CERAMIC CHIP 0.01MF

CERAMIC CHIP 0.033MF

1-126-101-11 1-106-220-00 C001 ELECT C002 MYLAR 1-164-232-11 1-123-382-00 1-126-103-11 C003 CERAMIC CHIP 0.01MF ELECT

C005 C006 C007 C009

1-163-117-00 1-124-907-11 1-124-907-11 1-163-117-00 C010 1-126-233-11

C020 1-124-903-11 1-124-907-11 1-124-907-11 1-124-907-11 C021 C022 0023 C024 1-124-907-11

C025 1-126-233-11 1-124-903-11 1-124-903-11 C026 C030 1-163-034-00

C038 1-163-009-11 1-163-117-00 C039 C041 C055 C058

C059

C062

C063

C101

C102

C103

C104

C105 C106

C107

CERAMIC CHIP 0.001MF CERAMIC CHIP 100PF 1-124-478-11 1-163-075-00 1-163-077-00 ELECT 100MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.1MF

1-164-232-11 CERAMIC CHIP 0.01MF 1-126-101-11 1-163-017-00 ELECT CERAMIC CHIP 0.0047MF 1-124-477-11 ELECT 1-124-910-11 ELECT

1-163-105-00 1-164-665-11 1-164-665-11 1-164-232-11 1-124-477-11 CERAMIC CHIP 33PF CERAMIC CHIP 0.039MF CERAMIC CHIP 0.039MF CERAMIC CHIP 0.01MF

ELECT

1-163-109-00 1-163-129-00 1-164-232-11

CERAMIC CHIP 47PF CERAMIC CHIP 330PF CERAMIC CHIP 0.01MF

REMARK

10%

20%

5% 20% 20%

50V 20% 50V 507 50 V 20% 20% 501 20% 20% 20% 507 507 507

50 V 507 5% 20% 50V 25V

507 10% 257

20% 10% 20%

167 501 167 20% 507 50V

10% 10% 50Y 50Y

20% 164

501 50V

50Y

-29-

KV-M2140K/M2141K RM-694



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
C120 C123 C125 C128 C131	1-163-009-11	CERAMIC CHIP 47PF CERAMIC CHIP 100PF ELECT 33MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.01MF			C340	1-162-568-11 1-130-783-00 1-106-383-00 1-130-783-00	CERAMIC CHIP O. MYLAR O.	.33MF 107 .047MF 107 .33MF 107	100V 100V
C132 C133 C135 C136 C139	1-164-232-11 1-163-033-00	CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.01MF	10%	50V 50V 50V 50V 50V	C346 C347 C348 C349 C351	1-163-033-00 1-163-037-11 1-163-037-11 1-163-037-11 1-106-375-12	CERAMIC CHIP O. CERAMIC CHIP O. CERAMIC CHIP O. CERAMIC CHIP O. MYLAR O.	022MF 107 022MF 107 022MF 107 022MF 107 022MF 107	50V 25V 25V 25V 25V 250V
C140 C141 C142 C143 C144	1-163-017-00	CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.0047MF	10% 10% 10% 10% 10%	50V 50V 50V 25V 50V	C352 C353 C354 C355 C355 C356	1-163-037-11 1-163-037-11 1-163-103-00	CERAMIC CHIP O. CERAMIC CHIP O. CERAMIC CHIP O. CERAMIC CHIP 27	022MF 107 022MF 107 7PF 5%	25V 25V 25V 50V
C145 C146 C147 C148 C149	1-164-665-11 1-126-101-11	CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.039MF ELECT 100MF	10% 10% 10% 10% 20%	25V 25V 25V 50V 16V	C357 C358 C359 C360 C361	1-124-556-11 1-163-125-00	CERAMIC CHIP O. ELECT 22 CERAMIC CHIP 22 ELECT 1M CERAMIC CHIP 27 CERAMIC CHIP 68	200MF 20% 20PF 5%	50V 2 50V
C151 C154 C157 C201 C202	1-124-927-11 1-126-233-11 1-124-925-11	CERAMIC CHIP 0.01MF ELECT 4.7MF ELECT 22MF ELECT 2.2MF	20% 20% 20%	50V 50V 50V 50V	1 (370	1-163-137-00 1-164-232-11 1-126-233-11	CERAMIC CHIP 68 CERAMIC CHIP 0. ELECT 22 MYLAR 0.	30PF 5% 01MF 2MF 20%	50V 50V 50V 100V
C203 C204 C206 C207 C208	1-124-480-11 1-163-011-11 1-124-925-11 1-126-104-11	CERAMIC CHIP 0.001MF ELECT 470MF CERAMIC CHIP 0.0015MF ELECT 2.2MF ELECT 470MF	10% 20% 10% 20% 20%	50V 25V 50V 50V 35V	C403 C404 C429 C430	1-163-133-00 1-164-232-11 1-163-197-00 1-164-336-11	CERAMIC CHIP 47 CERAMIC CHIP 0. CERAMIC CHIP 47 CERAMIC CHIP 0.	70PF 5% 01MF 70PF 10% 33MF	50V 50V 50V 25V
C209 C210 C301 C302 C303	1-124-907-11	MYLAR 0.22MF ELECT 10MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF		50V 100V 50V 50V 50V	C432 C433 C434 C475	1-124-910-11 1-164-232-11 1-126-233-11 1-164-232-11 1-126-233-11	CERAMIC CHIP O. ELECT 22 CERAMIC CHIP O. ELECT 22	01MF 2MF 20% 01MF 2MF 20%	50V 25V 50V 50V
C304 C305 C306 C307 C308	1-106-220-00 1-163-038-00 1-124-910-11	CERAMIC CHIP O.1MF ELECT 47MF MYLAR O.1MF CERAMIC CHIP O.1MF ELECT 47MF	20% 10% 20%	25V 50V 100V 25V 50V	. 0502	1-163-005-11	ELECT 47 CERAMIC CHIP 0. CERAMIC CHIP 10 CERAMIC CHIP 47	OPF 107	50V 50V 50V 50V
C309 C310 C311 C312 C313	1-163-099-00 1-124-917-11 1-163-133-00 1-163-121-00 1-163-105-00	CERAMIC CHIP 18PF ELECT 33MF CERAMIC CHIP 470PF CERAMIC CHIP 150PF CERAMIC CHIP 33PF	5% 20% 5% 5% 5%	50V 50V 50V 50V 50V	1	1-124-122-11 1-126-233-11	ELECT 22 MYLAR 0.	00MF 20% 2MF 20% 22MF 10% 000MF 20%	50V 50V 100V 25V
C314 C315 C316 C317 C318	1-163-103-00 1-163-427-91 1-163-117-00 1-163-093-00 1-164-232-11	CERAMIC CHIP 27PF CERAMIC CHIP 68PF CERAMIC CHIP 100PF CERAMIC CHIP 10PF CERAMIC CHIP 0.01MF	5% 5% 5% 10%	50V 50V 50V 50V 50V	C508 C509 C510 C511 C512	1-163-117-00 1-162-568-11 1-163-081-00 1-163-117-00 1-106-216-00	CERAMIC CHIP 10 CERAMIC CHIP 0. CERAMIC CHIP 0. CERAMIC CHIP 10 MYLAR 0.	33MF 10% 22MF 00PF 5% 068MF 10%	25V 50V 100V
C319 C321 C323 C329 C330	1-163-038-00 1-163-038-00 1-163-055-00 1-131-367-00 1-163-117-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0047MF TANTALUM 22MF CERAMIC CHIP 100PF	10% 10% 5%	25V 25V 50V 16V 50V	C513 C514 C515 C516 C517	1-163-033-00	FILM O. CERAMIC CHIP O. CERAMIC CHIP 68 CERAMIC CHIP O.	3PF 5% 022MF	100V 50V 50V 50V
C331 C332 C333 C334 C335	1-124-927-11 1-130-783-00 1-163-037-11 1-163-063-00 1-163-063-00	ELECT 4.7MF MYLAR 0.33MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.022MF	20% 10% 10% 10% 10%	50V 100V 25V 50V 50V	C518 C520 C521 C524 C525	1-163-117-00 1-163-033-00 1-131-377-00 1-106-228-00 1-106-216-00	CERAMIC CHIP 10 CERAMIC CHIP 0. TANTALUM 10 MYLAR 0.	00PF 5%	10V 100V 100V
C336 C337 C338 C339	1-163-119-00 1-130-834-00 1-106-220-00 1-106-220-00	CERAMIC CHIP 120PF MYLAR 1MF MYLAR 0.1MF MYLAR 0.1MF	5% 10% 10% 10%	50V 63V 100V 100V	C526 C527 C529	1-124-910-11 1-164-232-11 1-163-117-00	CERAMIC CHIP 0.	01MF 20%	50V 50V 50V

The components identified by shading and mark \(\text{\$\Delta\$}\) are critical for safety. Replace only with part number specified.

A

REF.NO. PART NO.			REMARK	REFINO. PART NO. DESCRIPTION	REMARK
C530 1-163-197-00 C532 1-163-117-00 C536 1-124-927-11 C537 1-163-038-00 C540 1-216-295-00	CERAMIC CHIP 470PF CERAMIC CHIP 100PF ELECT 4.7MF CERAMIC CHIP 0.1MF	5% 5% 20% 1/10W	50V	<pre></pre>	
C602 <u>A</u> 1-161-964-61 C603 1-162-599-12 C604 1-125-318-00 C605 1-161-754-00	CERAMIC 0.001MF	20% 10%	250V 250V 400V 2KV	CNA42 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR CNA43 *1-565-394-11 PIN, BOARD TO BOARD CONNECTOR CNA61 *1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P CNA62 *1-580-844-11 PIN, CONNECTOR (POWER) CNA63 *1-508-786-00 PIN, CONNECTOR (5MM PITCH) 2P	
C607 1-106-367-00 C608 1-161-753-00 C609 1-124-347-00 C610 1-124-557-11	FILM 0.047MF MYLAR 0.01MF CERAMIC 470PF ELECT 100MF ELECT 1000MF	10% 10% 10% 20% 20%	630V 400V 3KV 160V 25V	CNA64 *1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P CNA81 *1-508-768-00 PIN, CONNECTOR (5MM PITCH) 6P CNA82 *1-568-536-11 PLUG (MINIATURE DY) 6P	
C612 1-102-228-00 C614 1-126-101-11 C616 1-164-246-11 C618 1-126-233-11 C621 1-136-517-11	CERAMIC 470PF ELECT 100MF CERAMIC 0.0022MF ELECT 22MF FILM 0.22MF	10% 20% 20% 20% 20%	500V 16V 400V 50V 300V	<pre></pre>	
C623 A. 1-164-246-11	CERAMIC 0.0022MF FILM 0.22MF CERAMIC CHIP 15PF CERAMIC CHIP 15PF	20%	400V 300V 50V 50V 50V	<pre></pre>	
C801 1-101-821-00 C802 1-102-244-00 C804 1-126-101-11 C805 1-136-080-11 C806 1-136-187-11	CERAMIC 220PF ELECT 100MF FILM 0.011MF	10% 20% 3% 10%	500V 500V 16V 2KV 250V	D009 8-719-400-41 D10DE MA3051 D020 8-719-911-19 D10DE 1SS119 D101 8-719-110-03 D10DE RD7.5ES-B2 D102 8-719-110-03 D10DE RD7.5ES-B2 D103 8-719-110-03 D10DE RD7.5ES-B2	
C807 A 1-161-731-51 C808 1-136-933-11 C809 1-102-212-00 C811 1-136-540-11 C812 1-124-634-11	FILM 1MF CERAMIC S2OPF FILM 0.82MF	10% 5% 10% 5% 20%	2KV 100V 500V 160V 250V	D104 8-719-400-18 D10DE MA152WK D110 8-719-109-85 D10DE RD5.1ES-B2 D301 8-719-914-44 D10DE DAP202K D302 8-719-800-76 D10DE 155226 D303 8-719-914-44 D10DE DAP202K	
C813 1-163-009-11 C814 1-126-542-11 C815 1-126-233-11 C816 1-102-228-00 C817 1-123-948-00	ELECT 22MF CERAMIC 470PF	10% 20% 20% 10% 20%	50V 160V 50V 500V 250V	D305 8-719-800-76 DIODE ISS226 D306 8-719-400-18 DIODE MAI52WK D313 8-719-800-76 DIODE MAI52WK D321 8-719-109-89 DIODE RD5.6ES-B2 D324 8-719-914-44 DIODE DAP202K	
C818 1-106-375-12 C819 1-162-114-00 C820 1-162-318-11 C821 1-126-101-11 C822 1-162-318-11	CERAMIC 0.0047MF CERAMIC 0.001MF	10% 10% 20% 10%	250V 2KV 500V 16V 500V	D331 8-719-911-19 DIODE 1SS119 D332 8-719-911-19 DIODE 1SS119 D333 8-719-911-19 DIODE 1SS119 -D334 8-719-914-44 DIODE DAP202K D402 8-719-109-97 DIODE RD6.8ES-B2	
C823 1-126-233-11 C824 1-124-913-11 C825 1-106-371-00 C840 1-124-902-00 C850 1-126-101-11	ELECT 470MF MYLAR 0.015MF	20% 20% 10% 20% 20%	50V 50V 400V 50V 16V	D403 8-719-109-97 DIODE RD6.8ES-B2 D404 8-719-109-97 DIODE RD6.8ES-B2 D405 8-719-110-09 DIODE RD8.2ES-B3 D406 8-719-110-09 DIODE RD8.2ES-B3 D411 8-719-109-97 DIODE RD6.8ES-B2	
C1304 1-163-809-11 C1305 1-126-233-11	ELECT 100MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF ELECT 22MF	10% 20% 10% 10% 20%	50V 16V 25V 25V 50V	D417 8-719-914-44 DIODE DAP202K D418 8-719-914-44 DIODE DAP202K D426 8-719-911-19 DIODE ISS119 D427 8-719-911-19 DIODE ISS119 D450 8-719-978-31 DIODE DTZ6.8-TT11	
	CERAMIC CHIP 470PF TER> DISCRIMINATOR, CERAMIC TRAP, CERAMIC (6.5MHZ) TRAP, CERAMIC (6.5MHZ)		50V	D501 8-719-300-33 DIODE RU-3AM D503 8-719-911-19 DIODE ISS119 D504 8-719-400-18 DIODE MA152WK D519 8-719-400-18 DIODE MA152WK D601 8-719-946-90 DIODE KBU4JL-6088 D602 8-719-976-64 DIODE RGP02-17	
CF501 1-404-801-11 CF502 1-409-327-00 SWF101 1-409-327-00	TRAP, CERAMIC (6.5MHZ) TRAP, CERAMIC (6.5MHZ)	w •		D602 8-719-976-64 DIODE RGP02-17 D603 8-719-911-55 DIODE UO5G	1 1 m



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REF.NO. PART NO.	DESCRIPTION REMARK	REF.NO.	PART NO.	DESCRIPTION		REM	IARK
	DIODE ERD28-08S DIODE RU-3AM	L107	1-408-410-00	INDUCTOR	12UH		
D606 8-719-980-78	DIODE ERAS3-006 DIODE RU-3AM	L111 L301	1-410-872-21 1-408-409-00		10UH 10UH		
D608 8-719-300-33	DIODE RU-SAM	L302 L303	1-408-419-00 1-408-425-00	INDUCTOR	68UH 220UH		
D610 8-719-911-55	DIODE UOSG DIODE UOSG	L331	1-404-554-11	COIL	2		
D801 8-719-945-80	DIODE R2K DIODE ERCO6-15S	L404 L405	1-408-397-00 1-408-409-00	INDUCTOR	1 U H 10 U H		
D802 8-719-928-08	DIODE ERD28-OSS	L406 L501 L502	1-408-417-00 1-404-493-00 1-408-405-00	COIL	47UH 4.7UH		
D805 8-719-300-33	DIODE RU-3AM DIODE RU-3AM DIODE RGP02-17	L801	1-403-403-00		4.100		
D807 8-719-300-33 D808 8-719-300-33	DIODE RU-3AM DIODE RU-3AM	L802 L804	*1-420-872-00 1-459-390-00	COIL. AIR COR	RE DRE)		
D809 8-719-400-18	DIODE MA152WK	L805 L806	1-459-105-21 1-459-652-12	COIL (WITH COF	RE)		
D820 8-719-911-19 D1301 8-719-911-19	DIODE 1SS119 DIODE 1SS119	L807	1-408-239-00		4.7MMH		
D1302 8-719-911-19 D1303 8-719-911-19	DIODE 1SS119 DIODE 1SS119	L1001	1-408-226-00 1-408-397-00 1-408-397-00	INDUCTOR	82UH 1UH 1UH		
D1304 8-719-400-18 D1305 8-719-400-18	DIODE MA152WK DIODE MA152WK	L1002	1-408-391-00	INDUCTOR	100		
	DIODE 1SS226 DIODE 1SS226			IABLE COIL>			
		LV301	1-404-554-11	COIL			
	AY LINE>		<10	LINK>			
DL 301 1-236-062-11 DL 1301 1-415-613-11	MODULE, Y DELAY LINE DELAY LINE, Y	PS801A	1-532-637-91	LINK, IC 1A		Danelle Milli	
<fusi< td=""><td>E></td><td></td><td><tra< td=""><td>NSISTOR></td><td></td><td></td><td></td></tra<></td></fusi<>	E>		<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td></tra<>	NSISTOR>			
F601 A. 1-576-016-11	FUSE, GLASS-TUBE (TIME-LAG) 3.15A/250V HOLDER, FUSE; F601	Q001 Q003	8-729-920-74 8-729-901-01	TRANSISTOR 2S	C2412K-QR		
4-201-057-01	COVER, FUSE; F601	Q004 Q005	8-729-920-74	TRANSISTOR 2S TRANSISTOR DT	C2412K-QR		
<10>		Q006	8-729-922-66	TRANSISTOR 2S	C2410SN		
IC001 8-759-517-38	IC PCA84C840P-BE2A3	Q007 Q015	8-729-920-74	TRANSISTOR 2S TRANSISTOR 2S	C2412K-QR		
IC002 8-759-988-32 IC003 8-749-922-13 IC004 8-759-805-37	IC ST24CO2CP IC KEY-COOSV-F IC L78LRO5D-MA	Q016 Q017 Q019	8-729-901-47 8-729-216-22 8-729-901-06	TRANSISTOR 2S TRANSISTOR DT	A1162-G		
	IC UPC574J	Q020		TRANSISTOR DT			
IC102 8-759-044-41 IC201 8-759-502-74	IC TDA3827-V3 IC TDA7245	Q101 Q102	8-729-901-47	TRANSISTOR DT TRANSISTOR DT	A143EK	141	
10302 8-759-512-04	IC TDA4660V2 IC TDA3505-V1	Q103 Q104	8-729-901-47 8-729-920-74	TRANSISTOR DT TRANSISTOR 2S	A143EK C2412K-QR		
10331 8-759-521-22	IC TDA4650/V4 IC UPC1488H IC TDA8304 IC STR54041 IC RC4558P IC M5F78M12L	Q106	8-729-920-74	TRANSISTOR 2S	C2412K-QR		
	IC UPC1488H IC TDA8304 IC STR54041	Q107 Q112 Q114	8-729-920-74	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR DT	C2412K-QR		
	1C RC4558P 1C M5F78M12L	Q115	8-729-901-00				
.0002 0 133 001 33		Q141 Q302	8-729-000-12 8-729-920-74	TRANSISTOR 2S	C2412K-QR		
<jaci< td=""><td></td><td>Q303 Q304</td><td>8-729-230-49 8-729-920-74</td><td>TRANSISTOR 2S</td><td>C2412K-QR</td><td></td><td></td></jaci<>		Q303 Q304	8-729-230-49 8-729-920-74	TRANSISTOR 2S	C2412K-QR		
J401 1-561-534-00 J1401 1-563-500-11	SOCKET 21P JACK BLOCK, PIN (L TYPE) 2P	Q305	8-729-920-74 8-729-901-00	TRANSISTOR 25		general de la composition della composition dell	
<c011< td=""><td></td><td>Q307 0310</td><td>8-729-216-22 8-729-920-74</td><td>TRANSISTOR 25</td><td>A1162-G</td><td></td><td></td></c011<>		Q307 0310	8-729-216-22 8-729-920-74	TRANSISTOR 25	A1162-G		
L001 1-408-409-00	JACK BLOCK, PIN (L TYPE) 2P NULL OF THE SERVICE SERVI	Q311 Q401	8-729-216-22	TRANSISTOR 2S	A1162-G		
L102 1-408-409-00 L103 1-408-399-00	INDUCTOR 100H INDUCTOR 1.5UH	Q457	8-729-216-22	TRANSISTOR 25	A1162-G		
L106 1-408-415-00	INDUCTOR 33UH	¦ Q504	8-729-920-74	TRANSISTOR 2S	U2412K-QR		

KV-M2140K/M2141K RM-694

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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
9505 9601 9801 9802 9803	8-729-216-22 8-729-906-74 8-729-119-80 8-729-925-64 8-729-202-03	TRANSISTOR 2 TRANSISTOR E TRANSISTOR E TRANSISTOR E TRANSISTOR 2	SA1162- C637-16 SC2688- U508AS2	-G 5 -LK 2		JR126 JR127 JR128 JR129 JR130	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/8W	
Q1301 Q1302 Q1303 Q1304 Q1305	8-729-216-22 8-729-901-06 8-729-901-01 8-729-920-74 8-729-901-01	TRANSISTOR 2 TRANSISTOR D TRANSISTOR D TRANSISTOR 2 TRANSISTOR D	SA1162- TA144Ek TC144Ek SC2412k TC144Ek	-QR		JR131 JR133 JR134 JR135 JR136	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE	0 0 0 0	5% 5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/8W	
Q1306	8-729-901-01	TRANSISTOR D	TC144EK			JR137 JR139 JR144	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0	5% 5% 5%	1/8W 1/8W 1/8W	
	(RES	13104>				JR147	1-216-296-00	METAL GLAZE	ŏ	.5%	1/8W 1/8W	
JR44 JR99 JR003 JR004 JR005	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00) (5) (5) (6) (8) (9) (9) (9) (9) (9) (9) (9) (9	JR148 JR149 JR150 JR151 JR151	1-216-296-00 1-216-296-00 1-216-296-00 1-216-295-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/8W 1/8W 1/8W 1/10W 1/8W	
JR009 JR010 JR011	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10) k;) k;) k;	JR152 JR152 JR153 JR155		METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE			1/10W	
JRO16 JRO17 JRO18	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00		0 0 0 0		₩ ₩ ₩ ₩	JR182 JR183 JR184	1-216-296-00 1-216-296-00 1-216-296-00 1-216-295-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE			1/8W 1/8W 1/8W 1/10W 1/10W	
JRO26 JRO27 JRO28	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	W W	R002 R003 R004 R005 R006	1-216-081-00 1-216-081-00 1-216-083-00 1-216-206-00 1-216-254-00	METAL GLAZE METAL GLAZE	22K 22K 27K 2.2K 220K	5% % % % % % % % % % % % % % % % % % %	1/10W 1/10W 1/10W 1/10W 1/8W 1/8W	
JRO34 JRO36 JRO37 JRO38	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	W W	R007 R008 R009 R010 R011	1-216-190-00 1-216-049-00 1-216-049-00 1-216-198-00 1-216-035-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 1K 1K 1K 270	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/8W 1/10W	
JRO39 JRO45 JRO50 JRO51 JRO52	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	<u>ጽ</u> ሸ	R013	1-216-248-00 1-216-077-00 1-216-748-11 1-216-230-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	120K 15K 39K 22K 1K	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/8W 1/10W	
JR101 JR102 JR103	1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 1/10 5% 1/8W 5% 1/8W 5% 1/8W 5% 1/8W		R017 R018 R019 R020 R021	1-216-081-00 1-216-065-00 1-216-065-00 1-216-065-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 4.7K 4.7K 4.7K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
JR106 JR107 JR108	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 1/8W 5% 1/8W 5% 1/8W 5% 1/8W 5% 1/8W		R022 R023 R024 R025 R026	1-216-198-00 1-216-051-00 1-216-065-00 1-216-097-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1.2K 4.7K 100K 47K	5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W	
JR111 JR116 JR117	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 1/8W 5% 1/8W 5% 1/8W 5% 1/8W 5% 1/8W		R031	1-216-085-00 1-216-041-00 1-216-077-00 1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 470 15K 10K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	·
JR121 JR122 JR123	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 1/8W 5% 1/8W 5% 1/8W 5% 1/8W 5% 1/8W		R033 R034	1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 47K 15K	5% 5% 5%	1/10W 1/8W 1/10W	



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	REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
		1-216-073-00 1-216-081-00 1-216-081-00 1-216-081-00 1-215-900-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE	10K 22K 22K 22K 22K	5% 5%	1/10W 1/10W 1/10W 1/10W 2W		R136 R138	1-216-041-00 1-216-057-00 1-216-295-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 470 2.2K 0 330	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	R044 R045 R046 R047 R048	1-216-105-00 1-216-089-00 1-216-081-00 1-216-079-00 1-216-202-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220K 47K 22K 18K 1.5K		1/10W 1/10W 1/10W 1/10W 1/8W		R141 R142 R143 R144 R147	1-216-021-00 1-216-063-00 1-216-033-00 1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 220 4.7K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	R049 R050 R052 R053 R054	1-216-073-00 1-216-250-00 1-216-065-00 1-216-049-00 1-249-395-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	10K 150K 4.7K 1K 15		1/10W 1/8W 1/10W 1/10W 1/4W		R148 R149 R151 R152 R153	1-216-017-00 1-216-182-00 1-216-057-00 1-216-061-00 1-215-867-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE	470	5 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/8W 1/10W 1/10W 1W	
	R055 R056 R058 R059 R060	1-216-057-00 1-216-041-00 1-249-434-11 1-216-089-00 1-216-234-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE METAL GLAZE	2.2K 470 27K 47K 33K		1/10W 1/10W 1/4W 1/10W 1/SW		R199 R201 R202 R203 R204	1-216-073-00 1-216-057-00 1-216-298-00 1-247-741-11	METAL GLAZE METAL GLAZE CARBON	150 10K 2.2K 2.2 150		1/10W 1/10W 1/10W 1/10W 1/2W	
	RO61 RO62 RO64 RO70 RO71	1-216-079-00 1-216-242-00 1-216-091-00 1-216-055-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	18K 68K 56K 1.8K 3.9K	5% 5% 5% 5%	1/10W 1/SW 1/10W 1/10W 1/10W		R205 R206 R207 R301 R302	1-216-083-00 1-216-035-00 1-216-298-00	METAL GLAZE	27K 270 2.2 15K 220	5 % % % % % % % % % % % % % % % % % % %	1/10W 1/10W 1/10W 1/10W 1/10W	
	R072 R075 R076 R077 R078	1-216-049-00 1-216-248-00 1-216-198-00 1-216-077-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 120K 1K 15K 1K	5% 5% 5%	1/10W 1/8W 1/8W 1/10W 1/10W		R303 R304 R305	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 220 2.7K 15K 220		1/10W 1/10W 1/10W 1/10W 1/10W	
	R079 R081 R082 R083 R084	1-216-049-00 1-216-198-00 1-216-049-00 1-216-065-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1K 4.7K 2.2K	5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/10W		R308	1-216-033-00 1-216-055-00 1-216-049-00 1-216-051-00 1-216-174-00	METAL GLAZE	220 1.8K 1K 1.2K 100		1/10W 1/10W 1/10W 1/10W 1/8W	
	R086 R087 R089 R094 R095	1-216-065-00 1-216-027-00 1-216-212-00 1-216-077-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 120 3.9K 15K 4.7K	5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W		R313 R314 R315	1-216-174-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5% 5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/8W	
	R096 R097 R099 R100 R101	1-216-065-00 1-216-085-00 1-216-228-00 1-216-017-00 1-216-069-00	METAL GLAZE	4.7K 33K 18K 47 6.8K	5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W		R318 R319 R320 R321 R321 R322	1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K		1/10W 1/10W 1/10W 1/10W 1/10W	
	R102 R103 R104 R105 R106	1-216-061-00 1-216-057-00 1-216-057-00 1-216-109-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 2.2K 2.2K 330K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R324 R325 R326 R327	1-216-192-00 1-216-065-00 1-249-410-11 1-216-035-00 1-216-121-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE	560 4.7K 270 270 1M	5% 5% 5% 5% 5% 5% 5% 5% 5%	1/8W 1/10W 1/4W 1/10W 1/10W	
	R107 R108 R109 R110 R111	1-216-073-00 1-216-049-00 1-216-190-00 1-249-437-11 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE	10K 1K 470 47K 33K	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/4W 1/10W		R328 R329 R330 R331 R332	1-216-001-00 1-216-109-00 1-216-244-00 1-216-113-00 1-216-270-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330K 82K 470K 1M	5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/8W	
	R112 R113 R114 R115 R116	1-249-420-11 1-216-085-00 1-216-238-00 1-216-045-00 1-216-049-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 33K 47K 680 1K	5% 5% 5% 5%	1/4W 1/10W 1/8W 1/10W 1/10W		R333 R334 R335 R336 R337	1-216-091-00 1-216-091-00 1-216-001-00 1-216-059-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	56K 5.6K 10 2.7K 10K	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	R118 R119 R130 R131	1-216-037-00 1-216-045-00 1-249-409-11 1-216-041-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE	330 680 220 470	5% 5% 5%	1/10W 1/10W 1/4W 1/10W		R338	1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 3.3K	5% 5% 5%	1/10W 1/10W 1/10W	

RM-694

The components identified by shading and mark $\hat{\Delta}$ are critical for safety.

Replace only with part number specified.

spec	cified.												
	PART NO.					REMARK	REF. NO	. PART NO.	DESCRIPTION				REMARK
R346 R347	1-216-031-00 1-216-037-00 1-216-089-00 1-216-033-00 1-216-029-00	METAL GLAZE METAL GLAZE	180 330 47K 220 150	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R523 R524 R525 R527	1-216-099-00 1-216-065-00 1-215-869-11	METAL GLAZE METAL OXIDE	1.5K 120K 4.7K 1K	5% 5%	1/2W 1/10W 1/10W 1W	
R350 R351 R352 R353 R354	1-216-041-00 1-216-043-00 1-216-039-00 1-249-438-11 1-216-081-00	METAL GLAZE METAL GLAZE	470 560 390 56K 22K	5% 5% 5%	1/10W 1/10W 1/10W 1/4W 1/10W		R532 R533 R534 R535 R539 R542	1-216-081-00 1-216-133-00 1-216-069-00 1-216-107-00 1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 3.3M 6.8K 270K 1K 100 180	5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
R355 R356 R357 R360 R363	1-216-049-00 1-216-041-00 1-216-039-00 1-216-001-00 1-216-222-00	METAL GLAZE METAL GLAZE	1K 470 390 10 10K	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W		R543 R545 R548	1-249-408-11, 1-216-286-00 1-216-049-00 1-205-909-11 1-214-923-00	CARBON METAL GLAZE METAL GLAZE WIREWOUND	180 4.7M 1K 3.3 270K	5% 5% 5%	1/4W 1/8W 1/10W 10W	F
R364 R399 R402 R403 R404	1-216-222-00 1-216-037-00 1-216-172-00 1-216-023-00 1-216-023-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 330 82 82 82 82	5% 5% 5% 5% 5%	1/8W 1/10W 1/8W 1/10W 1/10W		R603 R604 R605 A	1-215-903-11 1-247-752-11 1-218-265-91 1-212-877-11 1-249-430-11	METAL OXIDE	68K 1K 8.2M 68 12K		2W 1/2W 1W 1/4W 1/4W	
R405 R406 R407 R408 R409	1-216-023-00 1-216-226-00 1-216-226-00 1-216-091-00 1-216-023-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/8W 1/8W 1/10W 1/10W		R608 R609 R611 R612 R613	1-215-884-11 1-207-905-00 1-214-915-00 1-219-137-11 1-217-811-11	WIREWOUND CARBON FUSIBLE FUSIBLE	0.27 120K 0.33 0.47		2W 2W 1/2W 1/4W 1/4W	
R411 R412 R413 R420 R421	1-216-037-00 1-216-037-00 1-216-037-00 1-216-182-00 1-216-449-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE	330 330 330 220 56	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W 2W		R617 R620 R621	1-216-037-00 1-216-013-00 1-216-354-11 1-216-465-11 1-216-465-11	METAL GLAZE METAL OXIDE METAL OXIDE METAL OXIDE	33 2.7 27K 27K	5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1W 1 2W 2W	
R423 R424 R425 R426 R427	1-216-095-00 1-216-222-00 1-216-033-00 1-216-045-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	82K 10K 220 680 1K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/8W 1/10W 1/10W 1/10W		R801 R802 R803 R804 R805	1-217-778-11 1-217-819-51 1-216-352-11 1-216-013-00 1-216-065-00	FUSIRIF	1K 2.7K 1.8 33 4.7K	52	1W ! 1/4W 1W ! 1/10W	
R428 R430 R431 R432 R433	1-216-073-00 1-216-077-00 1-216-077-00 1-249-403-11 1-216-079-00	METAL GLAZE METAL GLAZE CARBON	10K 15K 15K 68 18K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W 1/10W		! P.R.O.6	1-216-049-00 1-216-065-00 1-216-091-00 1-216-748-11 1-216-109-00	METAL GLAZE	1K 4.7K 56K 39K 330K 6.8K	5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R434 R435 R436 R437 R501	1-216-029-00 1-216-033-00 1-216-089-00 1-216-085-00 1-216-214-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150 220 47K 33K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W		R811 R812 R813 R814 R816	1-216-069-00 1-215-869-11 1-212-877-11 1-215-868-00 1-247-883-00	METAL GLAZE METAL OXIDE FUSIBLE METAL OXIDE CARBON	6.8K 1K 68 680 150K	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1/10W 1W F 1/4W 1W F 1/4W	
R502 R503 R504 R505 R507	1-247-743-11 1-249-437-11 1-216-017-00 1-216-073-00 1-216-350-11	CARBON CARBON METAL GLAZE METAL GLAZE METAL OXIDE	220 47K 47 10K 1.2	5% 5% 5% 5%	1/2W 1/4W 1/10W 1/10W 1W F		R817 R818 R819 R820 R821	1-216-071-00 1-202-830-00 1-249-448-11 1-217-811-11 1-216-059-00	METAL GLAZE SOLID CARBON FUSIBLE METAL GLAZE	8.2K 10K 1.2 0.47 2.7K	5% 10% 5% 5% 5%	1/10W 1/2W 1/4W F 1/4W 1/10W	,
R508 R510 R511 R512 R513	1-215-867-00 1-216-061-00 1-216-244-00 1-216-089-00 1-216-053-00	METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 3.3K 82K 47K 1.5K	5% 5% 5% 5%	1W 1/10W 1/8W 1/10W 1/10W		R822 R823 R826 R827	1-216-204-00 1-216-077-00 1-216-025-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 15K 100 22K	5% 5% 5% 5% 5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W	
R514 R515 R516 R517 R518	1-216-051-00 1-216-683-11 1-216-095-00 1-216-031-00 1-216-295-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	1.2K 22K 82K 180	5% 0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R830 R850 R1301 R1302 R1303	1-215-882-00 1-216-025-00 1-216-029-00 1-216-029-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 22 100 150 150	55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1/8W 2W F 1/10W 1/10W 1/10W	
R519 R520 R521 R522	1-216-049-00 1-216-258-00 1-216-053-00 1-215-863-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE	1K 330K 1.5K 100	5% 5% 5% 5%	1/10W 1/8W 1/10W 1W	1 7 1 8 3 5	R1306	1-216-200-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	390 1.2K 2.7K 820	5% 5% 5%	1/10W 1/8W 1/10W 1/10W	



The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

REF.NO. PART NO.	DESCRIPTION				REMARK	REF. NO	. PART NO.	DESCRIPTION	1		REMARK
R1308 1-216-045-00		680	5%	1/10W		1	· <ca< td=""><td>PACITOR></td><td></td><td></td><td></td></ca<>	PACITOR>			
R1309 1-216-049-00 R1310 1-216-047-00 R1311 1-216-065-00	METAL GLAZE	1K 820 4.7K	5% 5% 5%	1/10W 1/10W 1/10W		C703 C704	1-163-129-00	CERAMIC CHIP	330PF	5%	50 V 50 V
R1312 1-216-222-00	METAL GLAZE	10K	5%	1/8W		C705	1-163-191-00 1-163-007-11	CERAMIC CHIP	270PF	5% 10%	SAV
R1313 1-216-025-00	METAL GLAZE	100	5%	1/10W		C707	1-162-116-00		680PF	10%	2KV
<vai< td=""><td>RIABLE RESISTOR</td><td>></td><td></td><td></td><td></td><td>C708 C709 C710</td><td>1-162-114-00 1-163-007-11 1-123-947-00</td><td>CERAMIC CHIP</td><td>0.0047MF 680PF 10MF</td><td>10% 20%</td><td>2KV 50V 250V</td></vai<>	RIABLE RESISTOR	>				C708 C709 C710	1-162-114-00 1-163-007-11 1-123-947-00	CERAMIC CHIP	0.0047MF 680PF 10MF	10% 20%	2KV 50V 250V
RV001 1-238-012-11 RV331 1-238-012-11	RES. ADJ, CAR	BON 1K				C712	1-163-129-00 1-124-360-00	CERAMIC CHIP	330PF 1000MF	5% 20%	50V 16V
RV501 1-238-016-11 RV502 1-226-703-11 RV503 1-238-019-11	RES, ADJ, CAR RES, ADJ, MET RES, ADJ, CAR	AL GLA	K ZE 10K K			C716 C717	1-162-622-11	CERAMIC CHIP	330PF	10% 10%	400V 50V
RV504 1-238-019-11	RES, ADJ, CAR	BON 47	K			C718 C719	1-163-005-11	CERAMIC CHIP	470PF	10% 10%	50V 50V
RV505 1-238-009-11 RV801 1-238-015-11 RV802 1-238-019-11	RES, ADJ, CAR RES, ADJ, CAR	BON 4.	0 7K				<00	NNECTOR>			
1 230 019 11	RES, ADD, CAR	DON 41	N.			CNC71	*1-508-786-00	PIN, CONNECT	OR (5MM PI	TCH) 2P	
	TCH>	*				CNC72	*1-568-881-51 *1-560-123-00 *1-508-765-00	PIN. CONNECT	OR 6P		
S002 1-571-532-21	SWITCH, TACTI SWITCH, TACTI SWITCH, TACTI	L				LNU82	*1-508-765-00	PIN, CUNNECT	UK (5MM PI	ICH) 3P	
\$601 <u>A</u> . 1-571-433-12	SWITCH, PUSH	(AC PO					11 0 >				
<sp#< td=""><td>RK GAP></td><td></td><td></td><td></td><td></td><td>D702 D703 D704</td><td></td><td>DIODE MA152W DIODE MA152W DIODE MA152W</td><td>K</td><td></td><td></td></sp#<>	RK GAP>					D702 D703 D704		DIODE MA152W DIODE MA152W DIODE MA152W	K		
SG801 1-519-422-11						D705 D706	8-719-400-18	DIODE MA152W DIODE MA152W	K		
TRA T601 A 1-449-275-12 T603 A 1-421-776-11 T604 A 1-424-078-11 T605 A 1-424-391-11	NSFORMER>			*		D707 D708		DIODE MA152W DIODE MA152W			
T601 A. 1-449-275-12 T603 A. 1-421-776-11	S.R.T LFT				0.	D709 D710	8-719-400-18 8-719-400-18	DIODE MA152W DIODE MA152W	K K		
		TRIGGE LINE F	R PULSI ILTER	E				DIODE RU-3AM			
T801 1-437-090-00 T802 A. 1-439-416-51	TRANSFORMER AS	SSY, FI	LYBACK	(UX-165	50)	D714 D715 D716	8-719-800-76	DIODE 1SS226 DIODE 1SS226 DIODE 1SS226			
							< 140		4.		
THP601A. 1-808-059-32	RMISTOR>	POSITI	VE.			J701	<jac 1-526-990-11</jac 		URE TUBE		
_			_					**,			
<tun TU101A. 1-465-541-11</tun 		301)			• .	L704	<coi 1-410-878-11</coi 		33UH	•	
10101011 107 J41 11	TOREM (DI. JC.	J017				2104	1 410 010 11	INDUCTOR	JJ011	-	
	STAL>	7.00 4.1				0500		NSISTOR>	20710 VC		
X331 1-567-307-11	VIBRATOR, CRYS OSCILLATOR, CF OSCILLATOR, CF	RYSTAL				Q702 Q703 Q704	8-729-230-49 8-729-906-70 8-729-200-17	TRANSISTOR 25 TRANSISTOR BETTRANSISTOR 25	7871		
,						Q705 Q706	8-729-230-49 8-729-906-70	TRANSISTOR 25 TRANSISTOR BE	SC2712-YG		
<ter YC1301 1-565-666-12</ter 	MINAL> TERMINAL S AF)				Q707 Q708	8-729-200-17 8-729-230-49	TRANSISTOR 25	SA1091-0		
***************			*****	******	******	Q709 Q710	8-729-906-70	TRANSISTOR BE TRANSISTOR 25	871		
A-1638-016-A	C BOARD, COMPL										
*4-379-160-01	COVER (REAR LI		1			JR1	< KES 1-216-296-00	ISTOR> METAL GLAZE	0 5%	1/S₩	
*4-379-167-01	COVER (MAIN),	ČÝ,				JR2	1-216-296-00		0 5% 0 5%	1/8W	•

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REF.NO. PART NO.			REN	MARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
								22076		164
106 1-216-206-0	O METAL GLAZE O	5% 1/ 5% 1/ 5% 1/ 5% 1/	/8W /8W /8W		C5 C6	1-124-120-11		220MF 0.1MF		16V 25V
JR7 1-216-296-0 JR8 202 216-296-0	O METAL GLAZE O O METAL GLAZE O	5% 1/ 5% 1/	/8W		C6 C7 C8	1-163-038-00 1-163-235-11 1-163-235-11 1-163-235-11 1-163-038-00	CERAMIC CHIP CERAMIC CHIP	22PF 22PF	5% 5% 5%	50V 50V
JR12 1-216-296-0	O METAL GLAZE O	5% 1/	/8W		0)	1-163-235-11 1-163-038-00	CERAMIC CHIP	22PF 0.1MF	5%	50V 25V
JR14 1-216-296-0	O METAL GLAZE O O METAL GLAZE O O METAL GLAZE O	5% 1/ 5% 1/	/8W /8W /8W		C11 C12	1-163-038-00 1-163-038-00	CERAMIC CHIP CERAMIC CHIP	0.1MF 0.1MF		25 V 25 V
JR16 1-216-296-0	O METAL GLAZE O	5% 1/	/\$W		C13 C14	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00 1-124-927-11 1-163-117-00	CERAMIC CHIP	0.1MF 4.7MF	20%	25V 50V 50V
JR18 1-216-296-0	O METAL GLAZE O O METAL GLAZE O I METAL OXIDE 12K	5% 1/ 5% 3/	/8W /8W V F		C16	1-163-117-00 1-124-927-11				50V
R705 1-202-824-0 R706 1-216-182-0) SULID 5.5K	10% 1/	/2W /8W		C23	1-124-927-11	ELECT	4.7MF	20%	50₹
R707 1-247-822-1 R708 1-249-401-1	1 CARBON 430 1 CARBON 47	5% 1/ 5% 1/	/4W /4W			<con< td=""><td>NECTOR></td><td></td><td></td><td></td></con<>	NECTOR>			
R708 1-249-401-1 R709 1-202-844-0 R711 1-216-067-0	SOLID 330K D METAL GLAZE 5.6K	10% 1/ 5% 1/	/2W /10W		CNV1 CNV2	<con *1-565-393-11 *1-565-393-11</con 	CONNECTOR, BO	DARD TO BOAL	RD RD	
R712 1-216-198-0	METAL GLAZE 1K	5% 1/	⁄8₩	į						
R713 1-215-469-0 R714 1-216-487-1 R715 1-202-824-0) METAL 190K METAL OXIDE 12K SOLID 3.3K	5% 3W	/4W V F /2W		D1	8-719-105-91		-B2		
R716 1-216-182-0 R717 1-249-415-1	METAL GLAZE 220	5% 1/	/8W /4W	i	D1 D3 D5 D6 D9	8-719-914-44 8-719-914-44	DIODE DAP2021	K K		
R718 1-202-814-1			/2W	ļ	D6 D9	8-719-400-18 8-719-106-17	DIODE MA152WI DIODE RD6.8M-			
R719 1-216-166-0 R720 1-216-210-0 R721 1-202-842-1	METAL GLAZE 47 METAL GLAZE 3.3K SOLID 220K	5% 1/	/8W /8W /2W	1 1 1 1		<1C>				
R722 1-202-848-0	SOLID 680K	10% 1/	′2₩	i !	102	8-759-515-59	IC SAA5246P/H	700		
R723 1-216-198-0 R724 1-202-846-0 R725 1-202-838-0) METAL GLAZE 1K) SOLID 470K) SOLID 100K	10% 1/	/8W /2W /2W	1	103	8-759-510-49	11 418911931-	-10P		
R726 1-202-834-0 R727 1-249-409-1) SOLID 3.3K	10% 1/	/2W /4W	1		<001				
R728 1-216-347-1	METAL OXIDE 0.68	5% 1W	F	 	L1 L2	1-408-403-00 1-408-407-00 1-408-407-00	INDUCTOR INDUCTOR INDUCTOR	3.3UH 6.8UH 6.8UH		
R729 1-249-416-1 R730 1-216-166-0 R731 1-216-061-0) METAL GLAZE 47	5% 1/ 5% 1/	/4W /8W /10W	1 1	L3 L4		INDUCTOR	6.8UH		
R732 1-216-194-0			'SW	1		<1C>				
R733 1-216-194-0 R734 1-249-405-1 R735 1-215-493-0	METAL GLAZE 680 CARBON 100 METAL IM	5% 1/ 5% 1/ 1% 1/	/8W /4W /4W	İ	PS1 A	. 1-532-679-91	LINK, IC (ICF	P-N15) 0.6A	-40%	Maria de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición de la composición de la composición dela composición de la composición dela composición de
R736 1-215-493-0 R736 1-216-487-1 R737 1-215-483-0	METAL OXIDE 12K	5% 3W		1			VSISTOR>			
	METAL GLAZE 1K		′8₩	1 1 1	Q1		TRANSISTOR DT			
< V.	RIABLE RESISTOR>				Q2 Q3 Q4	8-729-920-92 8-729-120-28 8-729-120-28	TRANSISTOR 25	C1623-L5L6		
RV701 1-230-641-1	RES. ADJ. METAL GL	AZE 2.2M			Q5	8-729-807-87	TRANSISTOR 25	3B1295-UL6		
RV703 1-237-749-1	RES, ADJ, METAL GL RES, ADJ, CARBON 2 RES, ADJ, CARBON 2	200			Q6 Q7 Q9	8-729-807-87 8-729-807-87 8-729-901-04	TRANSISTOR 25 TRANSISTOR DT TRANSISTOR DT	B1295-UL6		
	******		******	****	Q10 Q11	8-729-901-01	TRANSISTOR DT TRANSISTOR DT	C144EK		
A-1645-020-	V BOARD, COMPLETE	(KV-M2141K	ONLY)			<rfs'< td=""><td>ISTOR></td><td></td><td></td><td></td></rfs'<>	ISTOR>			
				1	JR01	1-216-295-00	METAL GLAZE	0 5%	1/10W	
	PACITOR>	00*	160		JRO2 JRO3	1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/10W 1/10W 1/10W	
C1 1-126-101-1 C2 1-163-038-00 C3 1-124-120-1	CERAMIC CHIP 0.1MF	20% 20%	25V		JRO8 JRO9	1-216-295-00 1-216-295-00	METAL GLAZE	0 5%	1/10W	
C4 1-163-077-00	CERAMIC CHIP 0.1MF	20%	50V	ļ	JR11	1-216-295-00	METAL GLAZE	0 5%	1/10W	

KV-M2140K/M2141K RM-694

V J1

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

							specified.
REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO. PART NO. DESCRIPTION REMARK
JR12 JR13 JR14 JR15 JR16	1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/8W 1/8W 1/8W 1/8W		<connector> CN2001*1-568-878-51 PIN, CONNECTOR 3P</connector>
JR17 JR18 JR19 JR20 JR21	1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0 0	5% 5% 5% 5%	1/10W 1/8W 1/8W 1/8W 1/8W		<jack> J2201 1-562-837-11 JACK</jack>
JR22 JR23 JR24 JR26 JR27	1-216-295-00 1-216-295-00 1-216-296-00 1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/8W 1/10W		<coil> L2201 1-408-409-00 INDUCTOR 10UH</coil>
JR203 JR221	1-216-295-00 1-216-295-00	METAL GLAZE	0 0 0 0 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/2W		MISCELLANEOUS ************* Δ. 1-426-383-11 COIL, DEMAGNETIZATION Δ. 1-451-295-11 DEFLECTION YOKE (Y21PFA2) 1-452-032-00 MAGNET, DISK; 10MM φ 1-452-094-00 MAGNET, ROTATABLE DISK; 15MM φ
R2 R3 R4 R5 R6	1-216-214-00 1-216-049-00 1-216-025-00 1-216-047-00 1-216-001-00	METAL GLAZE METAL GLAZE	4.7K 1K 100 820 10	5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W		1-452-277-00 MAGNET, BMC 1-503-258-21 SPEAKER A. 1-590-460-11 CORD, POWER (WITH CONNECTOR) V901 A. 8-738-753-05 PICTURE TUBE (A51JXH60X)
R7 R8 R9 R10 R11	1-216-083-00 1-216-071-00 1-216-308-00 1-218-325-11 1-218-325-11	METAL GLAZE	27K 8.2K 4.7 120 120	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W 1/4W		ACCESSORIES AND PACKING MATERIALS
R12 R13 R14 R15 R16	1-216-001-00 1-216-013-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	120 100 10 33 33	5% 5% 5% 5%	1/4W 1/10W 1/10W 1/10W 1/10W		PART NO. DESCRIPTION REMARK 4-200-610-61 MANUAL, INSTRUCTION (ENGLISH/GERMAN/ POLISH/RUSSIAN) *4-200-680-01 INDIVIDUAL CARTON
R17 R18 R19 R21 R22		METAL GLAZE METAL GLAZE METAL GLAZE	33 100 100 33 56	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W		#4-200-681-01 CUSHION (UPPER) (ASSY) #4-200-684-01 CUSHION (LOWER) (ASSY) #4-380-340-01 BAG, PROTECTION
R23 R40 R42 R49	1-216-214-00 1-216-065-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	4.7K 4.7K 1K 1K	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W		REMOTE COMMANDER 1-465-562-11 CONTROL UNIT, REMOTE (RM-694) 4-395-610-01 COVER, BATTERY (FOR RM-694)
DUI		IABLE RESISTOR				! ! ! !	
RV1		RES, ADJ, CAR	DUN IK			1	
X1		STAL> CRYSTAL VIBRA	TOR				
*****	: * * * * * * * * * * * * * * * * * * *	********	*****	*****	*******	******	
1	:1-638-167-11	J1 BOARD					
		ACITOR>				1	
C2200	1-164-232-11	CERAMIC CHIP	0.01MF		5	10V	